



3500 Square, LLC

PO Box 309
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(787) 814-0087

www.3500square.com

Morgan Honea

Summary

Morgan Honea, Executive Director

2024 - Present

Morgan Honea, MHA, is a seasoned healthcare executive with a strong background in healthcare policy and administration. He has a proven track record of driving system-level change and leading successful organizations in the healthcare industry. Morgan is known for his expertise in governance, strategy, finance, and operations, and he is passionate about affecting positive change for all people.

Technology Expertise / Key Qualifications

- Integration Frameworks
- Data-driven decision-making
- Digitizing workflows
- Health Information Exchange (HIE) development and management
- Healthcare IT infrastructure
- Electronic Health Record (EHR) systems
- Telemedicine platforms

Prior to 3500 Square

Community Health Consultants, LLC, Denver, Colorado

2013-Present

Founder

- Spearheaded a healthcare consulting firm specializing in governance, strategy, finance, and operations for pioneering healthcare initiatives.

Contexture, Denver, Colorado

2021-2023

Executive Vice President

- Assumed a deputy role to the CEO, overseeing innovation and strategic growth initiatives, including mergers and acquisitions, strategic partnerships, and expansion of business lines.
- Collaborated cross-functionally within the organization to develop, implement, and optimize strategic and operational business functions.

Consortium for State and Regional Interoperability (CSRI)

2020-2023

CEO

- Led as Chief Executive Officer for a consortium comprising five health information exchange organizations nationwide, focusing on federal advocacy, fostering cross-organizational collaboration, and spearheading the development of new products and services.
- Acted as a primary liaison between founding organizations, federal and state agencies, and policymakers.

CORHIO, Denver, Colorado

2014 – 2021

Chief Executive Officer

- Directed organizational strategy for a high-impact board of directors, guiding over 100 personnel in driving health information exchange efforts across Colorado.

- Managed a \$35 million annual budget and played a pivotal role in developing the Governor’s Office of eHealth Innovation and Colorado’s HIT Roadmap.
- Achieved sustained organizational growth through the introduction of expanded products and services, fiscal prudence, and talent retention strategies.

Plains Medical Center, Rural Colorado

2010 – 2014

Chief Executive Officer

- Orchestrated the comprehensive revitalization of a rural/frontier Federally Qualified Health Center (FQHC), implementing strategic staffing, expansion of clinical sites and services, and forging strategic partnerships.
- Successfully navigated the organization from bankruptcy to consistently positive annual margins, culminating in a merger with a neighboring FQHC to establish one of the largest health centers in the United States.

Jordan Valley Community Health Center

2006 – 2010

Project Manager

Education and Training

University of Tulsa

Bachelor of Science in Accounting

Missouri State University

Master of Health Administration



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Robert Denson

Summary

Robert Denson, Chief Information Officer & Technical Lead,

2024 – Present

Executive with a wealth of experience in driving technological initiatives and leading teams towards success. With a background in strategic planning and execution, coupled with strong operations and team leadership skills, Denson excels in navigating complex technological landscapes. His expertise in the healthcare industry is evident through his ability to leverage data analysis and management to drive innovation and improve patient outcomes. Denson is adept at fostering strong relationships with vendors and stakeholders, effectively presenting to board members and the C-suite and managing financial aspects of projects. His track record of implementing innovative solutions, generating revenue, and enhancing customer experience underscores his proficiency in driving organizational growth and competitiveness. Additionally, Denson demonstrates a knack for change management, successfully navigating challenges and driving adoption of new technologies and processes within the organization.

Technology Expertise / Key Qualifications

- **Strategic Planning & Execution**
- **Operations/Team Leadership**
- **Healthcare Industry Expertise**
- **Key Performance Indicators (KPIs)**
- **Data Analysis/Management**
- **Vendor/Stakeholder Relations**
- **Board/C-Suite Presentation**
- **P&L/Financial Management**
- **Revenue Generation**
- **Innovative Solutions**
- **Customer Experience**
- **Change Management**

Prior to 3500 Square

MALAFFI | Abu Dhabi, U.A.E.

2019 – Present

Chief Executive Officer (CEO)

2022-Present

- Lead pivotal role as CEO in driving mission, vision, and objectives of innovative health information exchange platform.
- Build and nurture strategic relationships with stakeholders to gain trust, confidence, and loyalty.
- Drive robust healthcare portal reaching 3.2M citizens and implement image exchange solution, resulting in \$6M revenue.
- Partner with C-Suite peers to develop and execute growth strategies aligned with organizational goals.
- Focus on consultative relationships with industry leaders, securing \$4M award in 2022.
- Inspire workforce and implement tactics to increase employee engagement, retention, and performance.

Senior Vice President of Information Technology & Operations

2019 – 2022

- Established and led Health Information Exchange system, scaling team from 12 to 90 professionals.
- Acted as catalyst for change, introducing innovative systems and obtaining additional funding for ambitious goals.

- Managed cross-functional operations including project management, quality assurance, and vendor relations.
- Implemented growth strategy delivering 8.5% ABR in 2022 and integrated portal with 47K+ users.

CORHIO, Denver, CO

2013 – 2019

Chief Information Officer and Chief Compliance Officer

- Led technology strategies and initiatives to enhance patient experience and organizational sustainability.
- Negotiated multi-million-dollar vendor contracts and drove continuous improvements.
- Ensured compliance with healthcare regulations and focused on automation and data integrity.
- Leveraged business intelligence to grow and scale team and shift organization to sustainable enterprise.

AVAYA | Highland Ranch, CO

2008 – 2013

Technical Support Manager

- Spearheaded day-to-day operations for U.S. Service Desk, ensuring high levels of customer satisfaction.
- Mentored and coached more than 70 associates, enhancing knowledge and skills for future succession planning.
- Collaborated with executive leadership to establish e-Support T2 Technical Support Team, improving service and reducing response time.

Education and Training

Troy University.

Master of Business Administration (MBA) Degree

Excelsior College

Bachelor of Science (BS) Degree in Biology

Certification

CHIME Certified Healthcare Chief Information Officer Certification.



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James (Jim) Calanni

Summary

James (Jim) Calanni, Policy & Governance Lead

2024- Present

Brings extensive expertise as Director of Compliance, Security, and Solutions Delivery, leading NinePatch platform Implementation projects. With over 25 years of experience, Jim has successfully developed and directed enterprise-wide implementations of health and social care information initiatives with companies serving Medicaid and Medicare populations, establishing a strong foundation for effective policy and governance leadership.

Technology Expertise / Key Qualifications

- Compliance and Regulatory Management
- IT Security
- Program Management
- Strategic Planning
- Process Management
- Consulting Services
- Electronic Health Record (EHR) Implementation
- Health Information Exchange (HIE)
- Population Health Analytics

Prior to 3500 Square

Director – Delivery, Compliance and Security: NinePatch, Inc.

2020 to Present

- Led the successful implementation of NinePatch’s Whole Person Care platform in various communities, including:
 - Mariposa County Health and Human Services Agency, Mariposa, CA
 - Quality Health Network, Mesa County, CO
 - Sonoma County Community Action Partnership, Santa Rosa, CA
 - Knoxville Academy of Medicine Foundation (TCRN), Knoxville, TN
 - Humboldt County North Coast Health Improvement and Information Network, Eureka, CA. All of which are existing NinePatch customers.
- Spearheaded and directed NinePatch's regulatory and legal compliance initiatives, maintaining an impeccable track record with zero litigation and compliance issues.
- Co-developed and director of all NinePatch IT security effort, with and zero incident record since NinePatch’s onset, resulting in an A-rating on all outside annual third-party security audits.

Director LA County Whole Person Care “CHAMP” Program: Community Health Partnership

2014 to 2020

- Developed strategic program functions for the deployment of Care Coordination software across various divisions of Los Angeles County, including Housing for Health, CBEST, Office of Diversion and Re-entry, and Whole Person Care.
- Led the implementation of clinical health data exchange and population health analytics across the Pikes Peak region. Initiated and managed the program, overseeing the design, development, and building of direct teams to connect over 38 ambulatory healthcare providers to the State of Colorado Health Information Exchange.
- Implemented project oversight processes to ensure the quality of program management. Conducted global coordination for high visibility clients' healthcare IT deployments. Chaired various engineering teams,

including QA/QC, developers, business analysts, and product specialists, to analyze requirements, design, program, test, and deploy innovative industry-specific technology solutions. These efforts enabled El Paso, Park, Teller, and Elbert counties in Colorado, as well as Los Angeles County, to meet and exceed their five-year program goals. Additionally, proposed enhancement solutions for complex business problems, including the incorporation of social determinants of health data.

- Demonstrated proven and measurable results across the state of Colorado by assisting disparate state, county, and local agencies, as well as commercial healthcare entities, in bilateral health information and patient/provider data sharing and actuation.

CXO Consultant: HCA/Health-One, Catholic Health Initiatives/Centura

2010 to 2014

- Managed teams specializing in strategic planning, process management, and consulting services. Oversaw the full lifecycle of various service delivery models, ensuring their successful implementation. Provided exceptional support to executive-level clients by offering solutions to enhance best practice business decisions in technology acquisition, Electronic Health Record (EHR) implementations and migrations, Project Management Office (PMO) initiatives, and team development.
- Initiated and implemented process improvements, resulting in the optimization of profitability and the augmentation of annual revenue.
- Successfully executed various IT systems integration and project implementations for Fortune 500 healthcare organizations. This included the implementation of disparate IT and Electronic Health Record (EHR) systems.

Regional Operations Manager: Princeton Information

2004 – 2010

- Managed regional operations for the company.
- Oversaw various projects and ensured their successful execution.

Education and Training

Western State University, Newport Beach, CA
Juris Doctorate (JD) in Law

Aspen University, Denver, CO
Masters, Business Administration (MBA)

University of New Mexico, Albuquerque, NM / **University of Texas at Austin**, Austin, TX
Bachelor of Science (BS) in Bio-Chemistry



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Francisco C Dominicci

Summary

Francisco C. Dominicci, Program Management

2023-Present

Is a seasoned digital transformation executive with a strong focus on the healthcare information technology sector. With a proven track record of leading successful initiatives, Francisco excels in navigating complex environments and driving organizational change. His expertise lies in implementing innovative health IT solutions, strategic planning, and resource optimization. Francisco's background includes extensive experience in overseeing large-scale projects, managing budgets, and fostering cross-functional collaboration to achieve strategic objectives. He is adept at identifying opportunities for business growth, cultivating client relationships, and ensuring the delivery of high-quality services. Francisco's leadership and strategic vision make him a valuable asset in any program management role, where he can leverage his skills to drive impactful outcomes and organizational success.

Technology Expertise / Key Qualifications

- **Healthcare Information Technology**
- **Informatics**
- **Electronic Medical Records**
- **Digital Transformation**
- **Virtual Care**
- **Interoperability**

Alphabetical Listing of 3500 Square Projects

▪ **Owner, President & CEO**

- Lead strategic growth and operational success, achieving substantial milestones and serving five commercial and government clients with forecasted revenues exceeding \$750,000.
- Oversee all financial aspects, including budgeting, revenue forecasting, expense control, and financial reporting. Implement efficient financial strategies to drive profitability.
- Cultivate and maintain strong client relationships, identifying opportunities for expansion and repeat business. Lead the development and implementation of comprehensive marketing plans.
- Spearhead business growth initiatives, successfully acquiring five commercial clients within the first year. Recruit, onboard, and manage a dynamic team of professionals. Create persuasive proposals and manage contract negotiations. Ensure strict adherence to contractual obligations and develop effective teaming strategies.

Prior to 3500 Square

Federal Health B.E.A.T, LLC San Antonio, TX

July 2021 – July 2023

Senior Vice President

- Spearheaded the growth and expansion of the Federal Health Business line, accounting for over 80% of the company's total revenue.
- Directed the successful delivery and performance of multiple programs valued at over \$10M within the healthcare vertical, covering Program and Portfolio Management, Systems Engineering and Architecture, Network Engineering and Operations, Data Center Optimization and Operations, as well as Desktop/Server and Application Virtualization.
- Provided cross-functional management across departments including Business Development, Sales, Technical, Pre and Post Sales Deployment, and Marketing to ensure cohesive execution and delivery of solutions. Cultivated client relationships, resulting in the acquisition of new profitable business opportunities and impressive corporate revenue growth. Developed business strategies and operating plans to guide Federal Health initiatives towards sustained success and market leadership. Led the

development of innovative offerings, such as the Risk Management Framework as a Service Business Line, to meet evolving client needs and drive value-added services within the healthcare sector.

Dominicci & Associates, LLC Elizabeth, CO

Feb 2021 – Feb 2023

Owner, President & CEO

As President & CEO of Dominicci & Associates, LLC, I effectively steered the growth and management of a boutique consulting firm specializing in information technology and government contract strategy consulting. Over a span of 2 years, we successfully secured and serviced three pivotal clients, achieving a notable revenue milestone of approximately \$400,000.

Key responsibilities included:

- Oversight of all financial facets of the firm, encompassing budget planning, expense tracking, revenue generation, and financial forecasting. Implemented cost-effective strategies to optimize profitability.
- Development and execution of annual budgets, ensuring streamlined allocation of resources and strict adherence to financial objectives.
- Cultivation and nurturing of robust client relationships, identifying opportunities for upselling and cross-selling services. Expanded the client portfolio through strategic referrals and targeted networking endeavors.
- Design and implementation of comprehensive marketing initiatives to bolster the firm's visibility and reputation within the industry. Leveraged digital marketing, social media platforms, and traditional methods to effectively engage target audiences.

Defense Health Agency, Falls Church, VA

May 2019 – May 2021

Chief Solution Delivery Division

- Accountable for overseeing an \$820 million health information technology (HIT) application portfolio comprising 72 enterprise-wide applications and data systems. Responsible for ensuring cost-effectiveness, adherence to schedules, and optimal performance of these systems. Additionally, managed user training, HIT system integration, deployment operations, and business process engineering services for the MHS.
- Directed 12 Program Management Offices and support branches across five states, overseeing a workforce of over 1,000 military, civilian, and contract staff. Provided global support to the Services' Surgeons General and military treatment facilities. Additionally, served as a senior advisor to the Director of DHA on clinical informatics policy and strategy.
- Skillfully managed a spend plan encompassing over 6,500-line items and 175 contracts. Achieved cost savings exceeding 5%, internally funded over \$30M in unfunded requirements (UFRs) and secured \$4.7M in COVID funding in FY20. Led the development of a Mass COVID screening application, facilitating the testing of over ten thousand beneficiaries.

Defense Health Agency, Falls Church, VA

Oct 2017 – May 2019

Program Manager, Virtual Health

As the Program Manager for Virtual Health, overseeing an ACAT III acquisition program for the Defense Health Agency (DHA) in support of the Military Health System (MHS), a global healthcare enterprise with a budget of \$50 billion and serving over 137,000 employees and 9.4 million beneficiaries worldwide, my responsibilities encompassed:

- Acting as the Acquisition Program Manager, with accountability for cost, schedule, and performance. Managed the Virtual Health Program, which operated with an annual budget exceeding \$50 million, ensuring efficient allocation of resources and timely execution of project objectives.
- Established the MHS Virtual Health Program Management Office, streamlining and centralizing the coordination of the Department of Defense's Virtual Health initiatives. This initiative facilitated better collaboration and synergy among various stakeholders, optimizing project outcomes.
- Pioneered the development of the first strategic Virtual Health approach for the Department of Defense (DoD), encompassing synchronous, asynchronous, and Remote Health monitoring capabilities. This strategic framework laid the foundation for a comprehensive Virtual Health strategy across the DoD, enhancing healthcare delivery and accessibility for military personnel and beneficiaries.

- Innovated the creation of the first consolidated virtual health indefinite quantity, indefinite delivery contract, inclusive of all services from the Army, Navy, and Air Force. This consolidated contract streamlined procurement processes and improved efficiency in acquiring Virtual Health services, fostering collaboration and interoperability among military branches.

US Army Medical Command, Falls Church, VA

May 2016 – Oct 2017

Chief Nursing Information Officer Chief, Operations & Innovation

- As the Program Manager for Virtual Health, overseeing an ACAT III acquisition program for the Defense Health Agency (DHA) in support of the Military Health System (MHS), a global healthcare enterprise with a budget of \$50 billion and serving over 137,000 employees and 9.4 million beneficiaries worldwide, my responsibilities encompassed:
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Colorado Springs Military Health System, Fort Carson, CO

Aug 2014 – May 2016

Chief Information Officer and Director of Information Technology

- Directed, designed, and implemented services for all clinical systems across one Army and three Air Force Health IT Divisions.
- Developed innovative opportunities leveraging technology to enhance patient-focused systems of care, resulting in increased efficiency and cost reduction within the CSMHS. This initiative included system and contract standardization, optimization, and rationalization, achieving health IT cost savings exceeding \$7 million.

Evans Army Community Hospital, Fort Carson, CO

May 2012 – Aug 2014

Chief Medical Information Officer

- Implemented hospital-wide nurse call systems and hands-free communication devices, as well as standardized orders for all primary care clinics. These initiatives contributed to enhanced collaboration, an 88% reduction in patient falls, and a 15% increase in patient satisfaction.
- Led a complete overhaul of Diabetes and Endocrinology programs within the MTF, resulting in over a 30% improvement in workload recapture and the establishment of the first Endocrine service.
- Supervised the development of a new process for all Cardiopulmonary procedures, enabling the recapture of over 14,000 Relative Value Units (RVUs) and \$400,000 in additional earnings over the rating period.
- Introduced the first health information exchange contract within DoD with the Colorado Regional Health Information Organization, facilitating bidirectional data availability of health information between civilian facilities and DoD facilities in Colorado.

Education and Training

University of Colorado AMC
MS Health Care Informatics

Webster University, MA,
Management & Leadership

University of Puerto Rico,
BS, Nursing



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Adam Yoder

Summary

Director of Systems Engineering and Support at J2 Interactive. 2009–Present.

Technology Expertise

Programming Languages: C / C++, Caché ObjectScript, Caché Server Pages, DHTML, Java, JavaScript, SQL, Tcl, VB

Database Platforms: Caché, MySQL, Oracle, Postgres, SQLServer, Sybase

Integration Frameworks: ActiveMQ, Ensemble, HealthShare, J2EE, SOAP, Spring

Message Formats: HL7 2.x, XML, several proprietary formats

Development Tools: Ant, Caché Studio, Cruise Control, CVS, Eclipse, Maven, Microsoft Visual Studio, Subversion

Operating Systems: UNIX (AIX, BSD, HP-UX, Linux, OS X, Solaris), VMS, Windows (3.x, 9x, NT, 2000, XP, Vista)

Alphabetical Listing of J2 Projects

Baystate Health / Pioneer Valley Information Exchange (PVIX), Springfield, MA

HealthShare Systems Architect / Administrator

Architected / supervised the Ensemble systems infrastructure and HealthShare infrastructure implementation for a newly launched health information exchange serving Western Massachusetts. Specific responsibilities included:

- Installation and configuration of development, test, staging, and production instances of Ensemble and HealthShare at Baystate Health and PVIX, respectively.
- Design and implementation of high availability / disaster recovery strategies for both Ensemble / HealthShare.
- Training and mentoring of Baystate staff to instill self-sufficiency with system maintenance responsibilities.
- Provision of ongoing Tier 3 support to Baystate's internal systems team.

Brooklyn Health Information Exchange (BHIX), Brooklyn, NY

HealthShare Systems Architect / Administrator

Supervised and implemented all aspects of the HealthShare systems infrastructure for a regional health information organization serving the 2.5 million residents of Brooklyn, New York. Specific responsibilities included:

- Collaboration with a third-party systems integrator to develop a high-availability plan that utilized VMware to provide a failover cluster for the HealthShare servers.
- Design, documentation, and implementation of the exchange's security policies and infrastructure, including the definition of system roles and permissions.
- Planning and implementation of the exchange's network topology, including VPN connectivity for remote technical staff and communications with stakeholder organizations.
- Design and development of an Ensemble production responsible for receiving and routing incoming TCP and FTP feeds from the various BHIX stakeholders.

- Management of Subversion source control system, as well as code promotion across development, test, stage, and production environments.
- Management and supervision of the relationship with the exchange's third-party hosting company, including assignment, tracking, and escalation of critical tasks.
- Ongoing operational support for the HealthShare implementation, including close collaboration with BHIX stakeholder organizations to monitor, troubleshoot, and resolve any issues related to their data feeds.

Forerun, Inc., Waltham, MA

Caché Application Developer

Designed and developed two new end-user reports for Forerun's ED Dashboard system, designed to deliver consolidated patient history for emergency-room patients to an electronic dashboard visible to all staff in the ED. The reports—one to display new admissions and one to provide an overview of patient status across the ED—were integrated into the primary application interface utilized by physicians and nurses to monitor the ED.

InterSystems Corporation (ISC), Cambridge, MA / Windsor, UK

Technical Architect

Directed teams to deploy an urgent care management application, including requirements analysis, development, testing, and implementation, and ongoing support. Planned, supervised, and executed numerous projects, including:

- Designed, developed, and deployed an application to provide palliative care information for urgent care providers across the city.
- Deployed, customized, and integrated InterSystems Personal Community to allow patients to review their care plans, request changes, or request a care plan be created.
- Deployed, customized, and integrated InterSystems Provider Directory so all NHS providers were included in the system and easily provisioned as users.
- Upgraded Provider Directory and performed data conversion.

LifePoint Informatics, Midland Park, NJ

Caché Application Developer

Redesigned and re-implemented a set of legacy HL7 data transformation routines for a leading provider of lab outreach connectivity products and services.

Mount Sinai Health System, New York, NY

Technical Architect and Team Lead

Rehabilitate Health Information Exchange (HIE) that had problems with stability and performance. Led the team to add new data sources and downstream data consumers after stabilizing the system.

- Introduced new processes, including Agile methodology.
- Designed HL7, IHE, and custom inbound interfaces to HIE. Supported the development team.
- Designed, implemented, and deployed a solution for sending aggregated patient data to data lake.
- Designed an interface to care management system and supported implementation and deployment.
- Worked with infrastructure team to manage all aspects of system performance, sizing, upgrades, and patches.

New York eHealth Collaborative (NYeC), New York, NY

HealthShare Systems Architect

Supervised the seamless transition of responsibility for BHIX's HealthShare infrastructure to the New York eHealth Collaborative. Ensured continuity and quality of service by which NYeC's internal staff assumed responsibility for Tier 1 and Tier 2 support of HealthShare. Planned, supervised, and executed several specific projects, including:

- The physical move of BHIX's HealthShare environments to NYeC's data center.
- System sizing and configuration for NYeC's shared HealthShare environment, designed to support all of NYeC's participating RHIOs (BHIX, Healthix, Interboro, STHL, and THINC).
- System performance audit for Healthix.
- Establishment of IPsec VPN PTP tunnels to NYeC stakeholders.
- Configuration of SSL / TLS connectivity.
- Ongoing provision of Tier 3 support.

Spectra Laboratories, Rockleigh, NJ / Milpitas, CA

Ensemble Application / Interface Developer

Performed application development and system-level testing for both the East Coast and West Coast divisions of Spectra Laboratories. Built various Ensemble interfaces to support the migration of Spectra's legacy applications to McKesson's HLAB platform.

Sweden National Patient Overview, Stockholm, Sweden

HealthShare Application Developer

Created library functions in support of a services-based HealthShare solution for the country of Sweden. Wrote a Caché class to classify dates and times into categories (work hours, planned downtime, etc.) for a scheduling system responsible for managing batch transactions and other communications with remote care systems.

Village MD, Chicago, IL

Technical Architect and Team Lead

Planned several specific projects. Supported the development team in implementation and deployment, including:

- Bi-directional interface to Salesforce care coordination application.
- Bi-directional interface to Salesforce Occupational Medicine application.
- Realtime interface with Athena EHR using Athena proprietary APIs.
- Data imports from EHR back-end database to refresh in near real time.
- Integration with risk analysis system.
- Integration with referral management system.
- Patient identity and MPI enhancements.

Prior to Joining J2

Ontario Systems, Muncie, IN	1990 – 2008
Lead Security Architect	2007 – 2008
Director of Architecture and Design	2005 – 2007
Director of Information Technology	1993 – 2005

Education and Training

Ball State University, Muncie, IN

Completed 113 hours toward Bachelor of Arts in Philosophy

Certifications

- InterSystems HealthShare Health Connect HL7 Solutions (2019)



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Peter Carignan

Summary

Senior Consultant at J2 Interactive. 2013–Present.

Technology Expertise

Programming Languages: BASIC, C / C++ / C#, Caché ObjectScript, Caché Server Pages, CSS, FORTRAN77, Java, JavaScript, .NET framework (ASP, C#, VB), Pascal, VB6, XSLT, 1Zilog Z80 assembly, Zen

Database Platforms: InterSystems Caché, Microsoft Access, Microsoft SQL Server, Oracle 11g, Sybase SQL Server

Integration Frameworks: InterSystems Health Connect (Ensemble)

Healthcare Applications: InterSystems HealthShare

Message Formats: CCD / C-CDA, HL7, REST / JSON, SOAP, XACML, XML

Alphabetical Listing of J2 Projects

Greater Houston Healthconnect (GHH), Houston, TX

Application Developer

Played a key application developer role for Greater Houston Healthconnect (GHH). GHH serves as the regional health information exchange (HIE) in South and East Texas, including Houston, the third largest city in the United States. Work was primarily focused on their provider portal solution, including developing several enhancements and customizations for the HealthShare Clinical Viewer, as well as extending the patient search UI to support an updated design with new functionality.

Rhode Island Quality Institute (RIQI), Providence, RI

Integration Architect

Managed solution architecture and design, code review, systems deployment and source code management, InterSystems HealthShare and related code customizations, interface architecture and development, and upgrade planning and execution in support of the RIQI HIE, a statewide HIE connecting patients and providers throughout the state of Rhode Island. Served as lead developer on customizations and enhancements to HealthShare and InterSystems TrakCare / Clinical Viewer. Mentored RIQI's staff IT developers and J2 team members. Worked closely with RIQI's IT director on pipeline planning, systems enhancement paths, staff knowledge transfer, and deployment scheduling. Managed all stages of development, including initial architecture specification, development, implementation, testing, and deployment, and supported the following projects:

- **InPriva Direct CCD / C-CDA mail service:** This service processed attached CCD / C-CDAs from an InPriva direct email and parsed them to support HealthShare patient identification; it used XDS.b QueryRequest to locate and fetch stored documents, employed logic to deprecate existing documents, and generated an XDS.b Provide and Register (PnR) request to store the documents in the HealthShare document repository.
- **Customized XDS.b repository service** to receive CCDs / C-CDAs directly from 57 practices / hospitals in Rhode Island. The documents were stripped and filtered based on client-determined business requirements via XSLT transforms. This service processed the XDS.b PnR request to store the CCD / C-CDA in the HealthShare document repository.

- **RIQI multi-tenant consent:** This project's goal was to ensure data isolation by leveraging the native consent management engine, which is core to the HealthShare architecture. This allowed RIQI to maintain multiple consent groups of patients for large practices, high-risk, substance abuse, and many other business goals. Patient panels are defined to maintain isolation. RIQI has leveraged this model to expand to dynamic panels, which allow consent to be automatically revoked after a specified period of time. These panels allowed RIQI to establish panels to monitor possible opioid abuse across multiple emergency rooms and manage high-risk patient populations from hospitals down to individual practices.
- **Developed ADT, ORU, and MDM interfaces** between seven area hospitals and RIQI. Ensured standardization of incoming HL7 for common reporting and auditing purposes.
- **Developed PDMP REST interfaces** between RIQI, RxCheck, and BambooHealth. Ensured standardization of outgoing and incoming XML and JSON for common reporting and auditing purposes.
- **Developed NIH RxCUI REST/JSON interface** between RIQI and the NIH. Ensured standardization of medication names and descriptions for common display, reporting, and auditing purposes.
- **Developed SureScript REST/XML interface** between RIQI and SureScripts. Ensured up to date prescription information for all patients available in RIQI's Clinician portal.
- **Assisted in the development of a bidirectional interface with the Veterans Administration** using eHealth connector, XUA profile using SAML and x.509 credentials, SLS / TLS credentials, and a custom security domain within HealthShare. RIQI can receive C62s and C-CDAs and can accept C-CDAs from the VA. Implemented the framework necessary to establish full bi-directional connectivity with the VA test and production environments, with support for XCPD initiating and responding gateway (patient discovery) and XCA initiating and responding gateway (document query and document retrieve). Ensured that the following RIQI workflow elements were incorporated into the final RIQI VA solution:
 - Sharing of RIQI patients' clinical information with the VA in the form of on-demand documents in C-CDA format, aggregating historical and recent patient data.
 - Making VA patient clinical documents available in the HealthShare clinical viewer.
 - Application of patient consent rules to the above-mentioned workflows.
 - Auditing of the above-mentioned workflows and inclusion in disclosure reports.
 - Removal of sensitive data from VA patient information retrieved by RIQI.

VetsEZ, San Diego, CA

Integration Architect

Performed solution architecture and design, code review, InterSystems HealthShare and related code customizations, and mentoring VetsEZ developers in Caché ObjectScript.

- Customized HSBUS XCPD query / response to external Social Security Administration for consent filtering of patient search results.
- Customized ATNA auditing to include additional VA specific demographic information used by external reporting system.
- Customized OnDemand process for including start and end date service times in XCA document query and retrieve.

Prior to Joining J2

Optum Insight, Providence, RI

2009 – 2013

Senior Software Engineer – Interfaces Department

- Designed and built custom Caché classes to connect, send, and retrieve information from HIE using PDQ Query, PIX request / response, and XDR protocols. Created custom class to implement SAML security.
- Configured HealthShare services, processes, operations, registry services, and OIDs to connect to Axolotl HIE.
- Wrote custom Caché ObjectScript to manage base64-encoded message segments using streams in DTLs.

Massachusetts Financial Services, Boston, MA

1993 – 2008

Senior Application Engineer – Equity Department

2005 – 2008

- Designed and developed C#.NET-based Windows application that synchronized fixed income, equity, and internal systems used in daily trading activity.
- Designed and developed .NET-based web authentication and authorization web service based on the authorization and profile application block, for use throughout all applications (web and Windows) in the company.
- Designed and developed C#.NET-based Windows network scanner that recorded all share-level permissions and print server permissions on all Windows-based servers.
- Designed and developed C#.NET-based private portfolio services daily importer / reconciler that synchronized external portfolio system of record with Eagle, an internal proprietary system.
- Designed and developed ASP.NET Separate Accounts Revenue Application, a corporate finance website used to set up, maintain, and bill quarterly management fees.
- Designed and developed ASP.NET share permissions website used to maintain share-level ownership and authorization to view sensitive data.
- Designed and developed various corporate-wide C#.NET-based classes, such as an impersonation class, Active Directory wrapper class, web configuration encryption class, CSV file loader class, and common error logger class using Windows application programming blocks.

Senior Application Engineer – Application Engineering

2002 – 2005

- Developed Cold Fusion application for calculating, billing, and maintaining the custom properties that exist for foreign portfolios, history of short sales, and covered short trades for reconciliation purposes with Goldman Sachs.
- Developed an ASP.NET-based (C#) Outside Mutual Funds application for billing of retirement plans for Goldman Sachs clients that include non-MFS funds.

Senior Application Architect – ASP Development

1999 – 2002

- Served as team leader for corporate intranet and Windows applications and website development.
- Developed corporate security authorization (Visual Basic DLL) for use by ASP-based web applications using a three-tier application architecture: the presentation layer in HTML and JavaScript, the business layer in Visual Basic COM components, and the data layer in Microsoft SQL Server or Oracle stored procedures and triggers.

Group Manager – RSI Development

1996 – 1999

Developed VB-based applications in support of the retirement sales division.

Application Developer – MFSC Development

1993 – 1996

Developed C-based and VB-based applications in support of the service center division.

Education and Training

University of Notre Dame, South Bend, IN

Bachelor of Science in Electrical Engineering

Stonehill College, Easton, MA

Bachelor of Arts in Computer Science

Certifications

- InterSystems HealthShare Health Connect HL7 Solutions (2019)