

CHAD NIERENHAUSEN

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Target: Sr. Director of Engineering

Transformative leader enhancing tech landscapes and driving growth with innovative, scalable cloud solutions.

Strategic innovator and pioneer of new technologies with a proven record in scaling cloud-native solutions and leading teams in highly regulated sectors such as healthcare. Expert in integrating diverse technical teams and leading data engineering projects, driving innovation and efficiency in tech-focused organizations. Skilled communicator with both technical and nontechnical stakeholders, excelling in team building, organizational development, and technical project planning.

CAREER EXPERIENCE & ACHIEVEMENTS

Executive Vice President, Software Development | PYX HEALTH

2019 – 2024

A healthcare technology company focused on supporting members through social determinants of health (SDOH) screening tools.

Advanced from Senior Software Engineer to an executive leadership role, architecting and scaling cloud-native software and infrastructure for the Pyx Health Progressive Web App and mobile platforms. Achieved 2,250% growth in customer base, expanding from 2 to 23 national clients across 150+ markets. Led engineering team through major expansion from 3 to 18 members, establishing multiple Agile Development teams, a dedicated QA team, and a Data Engineering team.

- **Led the Engineering department during 250% annual growth period, securing 2x recognition on Inc.'s list of Fastest Growing Companies.**
- Automated the monthly ingestion of 600+ flat files and 10M+ records. This automation streamlined delivery of hundreds of client data reports, freeing up team resources for higher-level tasks and reducing client onboarding time.
- Collaborated on the development of a PII-blinded data warehouse with AI and ML capabilities, leading to a proprietary scoring algorithm that identifies at-risk members within health plan cohorts, enhancing targeted services.
- After the acquisition of InquisitHealth, transitioned their infrastructure from AWS to Azure, implemented robust QA and production environments, and established a streamlined Azure DevOps pipeline, ensuring regulatory compliance and elevating product standards,
- Reduced cloud infrastructure overspending, saving an estimated \$400K over 5 years, by auditing usage and realigning resources with actual traffic patterns. Established monitoring to manage the ecosystem and sunset unused service.
- Leveraged a people-centric leadership mindset. Advanced junior members to senior roles through active mentoring and development, aligning personal ambitions with company goals.

As one of the initial 10 hires, played a pivotal role in key business-impacting projects, including:

- ☑ **HiTRUST R2 Certification:** Secured and maintained HiTRUST R2 certification, demonstrating commitment to data security and privacy. This involved a coordinated effort across Legal, IT, Development, Operations, QA, and Data Engineering teams. Developed 150+ policy documents and collaborated with auditors on 300+ controls, enhancing trust with health insurance partners and reducing sales barriers by assuring robust protection of sensitive data.
- ☑ **Post-Acquisition Team Integration:** Streamlined integration of 2 distinct development teams post-acquisition by collaborating with leadership to assess and align methodologies. Implemented phased transition plan, supported by Scrum Masters, leading to swift adoption of Agile practices and cross-team collaboration within 3 months.
- ☑ **Building Out Data Engineering Function:** Established 4-person Data Engineering team in response to increasing data sizes and complexity. Secured funding for growth and established a structured team-reporting system.

Software Architect | AMERICAN BOARD OF RADIOLOGY

2018 – 2019

A not-for-profit professional association that oversees the certification and ongoing professional development of physician specialists.

- Directed development of new .NET Core API and Aurelia/Redux UI for an online testing platform, enabling radiologists nationwide to maintain certifications remotely, eliminating the need for in-person testing.
- Collaborated with System Administrators and QA to conduct remote stress tests on new software for an 800-person

center in Chicago, ensuring bandwidth adequacy with existing infrastructure.

- Identified and resolved a critical network bottleneck that impeded testing efficiency, enhancing code delivery across all environments.
- Created 2 portable sandbox systems, with an isolated webserver and 5 iPads, enabling effective product demonstrations and customer training nationwide, particularly in areas with low or no Wi-Fi connectivity.

Software Development Engineer | SCI SOLUTIONS

2016 – 2018

Provider of digital engagement solutions for health enterprises, enhancing consumer digital access; acquired by R1 RCM in 2020.

- Acted as a Full Stack .Net Developer, enhancing and maintaining a large SaaS application within an agile team, enabling physicians' offices and hospitals to manage electronic orders for medical procedures efficiently.
- Boosted unit test code coverage by 25%, significantly enhancing developer confidence and reducing regressions in future application releases.
- Developed new front-end framework using SASS and ITCSS principles, enhancing code reusability, ensuring consistent application aesthetics, and reducing technical debt.

Application Systems Analyst / Developer, Principal, Residence Life | UNIVERSITY OF ARIZONA

2010 – 2016

An elite, globally recognized university system with 19 separate schools known for outstanding academics and value.

- Transitioned new and legacy systems from on-premises data centers to AWS cloud infrastructure, enhancing efficiency, reducing expenses, and achieving high system availability. Gained immersive training and education at AWS's re:Invent Conference.
- Overhauled the student housing system, enhancing process efficiency and integrating with campus partners. Developed scalable self-selection system for 6K+ students, successfully maintaining high performance under peak loads.
- Served on a talent search committee to select a new Assistant Director of Technology Services, leading recruitment efforts from screening to hiring.
- Led a new wave of virtualization by identifying emerging technologies, developing proof of concepts, and training teams on key tools, such as Vagrant, Docker, and Kubernetes.

EDUCATION

Bachelor of Science (BS), Computer Sciences | University of Arizona

Professional Development:

- DeadFace CTF (2024): Participated on a 4-person team to a top 5% finish in a 2-day cybersecurity challenge, focusing on cryptography, steganography, reverse engineering, and SQL injection.
- SANS Holiday Hack Challenge (2024): Completed a solo, self-paced, hands-on learning experience focused on critical cybersecurity challenges.

AREAS OF EXPERTISE

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| ● Strategic Leadership | ● Server Administration |
| ● Project Management | ● Cross-Disciplinary Knowledge |
| ● Process Optimization | ● Data Engineering |
| ● Change Management | ● Cloud Infrastructure Management (AWS, Azure) |
| ● Team Building | ● Software Development |
| ● Mentorship | ● Machine Learning (ML) & AI Integration |
| ● Cost Management | |
| ● Regulatory Compliance | |