

# Chris Harley

**Engineering Leader** | Senior Engineering Manager

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A results-driven Engineering Leader with a strong technical background and a proven record of success in regulated environments. I directed a \$5MM contract project to develop a patient relationship management application and led a service redesign that resulted in a 90% reduction in maintenance time. My expertise lies in defining engineering strategy, building high-performing teams, and modernizing development practices to deliver scalable solutions that drive tangible business results.

## PROFESSIONAL EXPERIENCE

### Senior Software Engineering Manager

**Patterson Dental** | 2023 - 2025

- Directed a 2-year, \$5MM contract to develop a new patient relationship management (PRM) application for a cloud-based dental platform, streamlining patient communication and reducing costs by replacing third-party integrations.
- Managed teams of full time engineers in the development of a partner integration SDK, providing APIs and Azure Service Bus connections to our partner companies, resulting in a seamless experience for Patterson customers.
- Pioneered a new development foundation by leading the adoption of a microservices architecture, modern CI/CD processes, and a micro-frontend framework, which dramatically improved development speed and set a model for broader organizational adoption.
- Initiated a cultural shift towards focused meetings with clear agenda and active participation, moving the department away from large group meetings with static agendas and attendees passively listening.

### Engineering Manager

**Code42** | 2021 - 2023

- Architected and drove a comprehensive product strategy that evolved our partner integration ecosystem, enabling seamless interaction via RESTful APIs and Python client libraries.
- Successfully managed multiple scrum teams during a critical company split, supporting the transition from a profit-oriented business to a growth-oriented startup.
- Provided expert guidance to the team in the development of REST API standards, steering them towards a low-maintenance approach to generating Open API Spec from Jersey and Spring code.
- Redesigned an audit logging service, addressing maintenance and scalability issues. Reduced annual maintenance time by over 90%, saved more than 8 person-months per year, and sped up feature release cycles by removing inter-service dependencies.
- Implemented team status dashboards to enhance communication and coordination with product management and executive leadership, improving overall visibility and alignment

### Engineering Manager

**Canon Medical** (formerly Vital Images) | 2014 - 2021

*Team: Solution Health* | 2019 - 2021

- Led the Solution Health team in the creation of an observability platform that monitored application health and usage for on-prem applications deployed at customer locations across the globe.
- Conducted thorough research on available software, technologies, and deployment strategies. Based on the business's readiness, strategically selected Elastic Cloud SaaS as the application monitoring platform for Vital.
- Established change control and developed version management software to treat configuration as code and deploy changes to Elasticsearch and Kibana via their RESTful APIs. Ensured reliable and repeatable cluster deployments.

*Team: Advanced Visualization* | 2017 - 2019

- Led multiple cross-functional scrum teams with a total of 20 direct reports, comprising product owners, architects, scrum masters, developers, and testers, developing a cutting-edge platform for advanced visualization in medical imaging.
- Served as the key point of contact for an offshore team of 15 Test and Automation Engineers, adeptly handling relationship management, contract administration, and task assignments to maximize productivity and project success.
- Directed the development and commercial release of a software platform that provides common functionality to clinical applications created by teams across Vital and Canon Medical Systems.

*Team: Vitrea View and Vitrea Services Platform* | 2014 - 2017

- Led a high-performing team in the development of a browser-based medical imaging viewer, setting clear priorities, upholding design and quality standards, and ensuring timely project completion.
- Initiated the transformation of engineering practices from component-focused teams to full-stack development teams, fostering improved cross-functional communication and collaboration.

## Senior Software Engineer

**Canon Medical** (formerly Vital Images) | 2012 - 2014

- Architected and developed a high-performance RESTful web services application using Java and the Spring Framework, delivering a robust and scalable solution to meet complex business requirements.
- Collaborated with an offsite team member on a mission-critical project to enhance the core product with DICOM STOW functionality. Provided expert guidance, conducted comprehensive code reviews, and integrated the solution, elevating the product's capabilities.

## Senior Software Engineer

**Medtronic** | 2009 - 2012

- Led a team of software engineers tasked with developing and maintaining a web application that gathers data from insulin pumps and glucose sensors to help patients and physicians make better therapy management decisions.
- Drove decision to combine several implementations of device reading software used by multiple related products into a single implementation; significantly reduced cost of product and software updates and increased software reuse in new products
- Served as the Grant Sponsor on a research grant provided by Medtronic Diabetes to California State University, Northridge.

## Software Engineer

**Codonics** | 2002 - 2009

- Managed project to expand capability, features and functionality to core Horizon imaging product, creating an industry elite 51-inch film imaging solution; boosted market share and added significant new revenue with 12-month ROI.
- Implemented HL7 and DICOM services in Java for Medical Imaging Printers, CD publishers, and Image Archives.
- Served as Software Co-op Program Supervisor; promoted company at local college campuses, interviewed and selected software engineering students for hire, assigned and oversaw their projects

## EDUCATION AND AWARDS

- BS, Computer Science - Case Western Reserve University, 2002
- Distinguished Employer Award from the Ohio Cooperative Education Association
- Dionysus Award for Outstanding Contribution to Theatre by a Non-Major
- Eagle Scout Award

## SKILLS

**Leadership:** Strategic Planning, Agile Methodologies, Process Improvement, Performance Management, Product Management, Project Management, Change Management, Vendor Management, Team Building & Mentoring, Budget & Resource Allocation, Risk Management

### Technical Stack:

- **Languages:** Java, Python, Groovy, C++
- **Frameworks & Libraries:** Spring, Hibernate, REST, Angular
- **Cloud & DevOps:** Azure, Docker, Containers, CI/CD, Microservices Architecture, Micro-frontend Architecture (MFE)
- **Tools & Platforms:** Elasticsearch, Kibana, Logstash, Jira, Azure DevOps, LaunchDarkly, GitHub Flow
- **Healthcare Standards:** DICOM, HL7, SaMD (Software as a Medical Device)

### Managed Platforms & Technologies:

- **Mobile Platforms:** iOS, Android
- **Cloud & Infrastructure:** Azure, AWS, ACA, AKS, ECS
- **Development Frameworks:** .NET, React Native, Swift, Kotlin