

ERIC KROHNFELDT

Senior Software Engineer | Software Architect | Technical Lead

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SUMMARY

Senior Software Engineer and Architect with 14+ years of experience designing distributed systems, event-driven microservices, full-stack applications, and high-availability infrastructure. Trusted to solve complex architecture, production, data, and maintainability problems while providing technical direction and mentoring engineers.

TECHNICAL SKILLS

Core: Java, Spring Boot, JavaScript, Angular, Node.js, REST APIs, Microservices, Event-Driven Architecture

Data & Cloud: MongoDB, Oracle, Microsoft SQL Server, AWS, EKS, Kubernetes, Docker, VMware

Tools: Maven, Kafka, Bitbucket, Spinnaker, Grafana, JUnit, Cucumber, Selenium, Forgejo, Woodpecker CI

EXPERIENCE

TeleTracking — Software Engineer III

Remote | May 2020–July 2026

- Provided technical direction and mentoring for teams of 4–10 engineers, translating product requirements into implementation designs and scalable architectural approaches.
- Designed a reusable event-processing framework that improved resilience to asynchronous and out-of-order events and provided a consistent engineering approach across services.
- Led adoption of the event-processing framework across multiple services, replacing duplicated solutions with a reusable platform capability.
- Designed shared RTLS processing and reporting services supporting healthcare workflows in an event-driven environment.
- Standardized Spring Boot services through centralized Maven parent POMs and reusable Git templates, reducing configuration drift and simplifying maintenance and security updates.
- Developed Java 21 and Spring Boot REST services using MongoDB, Kafka, Docker, AWS EKS, Maven, JUnit, and Cucumber.

BoldPlanning — Software Architect

Nashville, TN | January 2018–April 2020

- Independently designed and built the AngularJS front end for a metadata-driven emergency-management document platform supporting configurable forms and document types.
- Created centralized real-time state management, a mock backend, and supporting Java and Node.js services, allowing front-end development to proceed independently of production services.
- Built a Java-based Selenium regression suite for developer-run and automated build testing.
- Architected and deployed the AWS environment, including the VPC, custom DNS service, hardened bastion host, and layered security controls.

Calsonic Kansei — Systems Engineer II / Systems Engineer III

Nissan Plant, Smyrna, TN | June 2015–January 2018

- Stabilized a failing legacy assembly-line control environment before designing and building its replacement from the ground up.
- Owned the full system, including Microsoft SQL Server schema design, Java services, Angular reporting, Ignition technician interfaces, central control software, and industrial-equipment integrations.
- Integrated automated guided carts, torque tools, and equipment inputs to support real-time production decisions and assembly-line control.
- Specified, installed, and administered the servers, VMware environment, network equipment, and high-availability failover supporting near-continuous manufacturing operations.
- Resolved database deadlocking discovered during the initial deployment and delivered a stable second release in an environment where unplanned downtime carried significant financial consequences.

American HomePatient — Application Developer

Brentwood, TN | May 2012–June 2015

- Modernized the medical-resupply order-entry application used by sales staff, migrating Spring XML configuration to annotation-based configuration and rebuilding front-end and middle-tier components.
- Built a custom data-access framework and Oracle mapper code generator that eliminated repetitive development and reduced maintenance overhead.
- Worked directly with the database team to integrate application and Oracle changes and resolve complex design problems.

PROJECT

Agentic Software Development Platform — R&D Project

June 2026–Present

- Built a hardened Docker environment that enables AI development agents to complete ticket-driven work across more than a dozen software and infrastructure projects.
- Integrated Codex CLI with controlled Git, Forgejo, Maven, Docker, and CI tooling, allowing agents to implement changes, run validation, commit code, and create pull requests.
- Implemented an iterative human-review workflow in which agents retrieve pull-request comments, address requested changes, update branches, and notify reviewers when work is ready for re-review.
- Used the platform to complete dozens of merged pull-request workflows while enforcing ticket-based branches, commit standards, scoped access, and secret protection.

EDUCATION

Bachelor of Science in Computer Science

Tennessee Technological University, 2012