

Caleb Reder

Senior Software Engineer | Systems & CI/CD Architect | Automation Framework Specialist

📍 Kasson, MN (Open to In-Person, Hybrid & Remote) • 📞 (218) 213-5149 • ✉ cryptech313@gmail.com
🌐 linkedin.com/in/caleb-reder-40250086 • 🐙 github.com/reder9 • 🌐 redersoft.com/aboutProfessional

PROFESSIONAL SUMMARY

Versatile Senior Software Engineer and Systems Architect with 10+ years of enterprise excellence at Code42 (acquired by Mimecast), grounded in a dual B.S. in Computer Science and Mathematics. Proven track record architecting in-house automated test platforms (Test42), deterministic multi-OS harnesses, mission-critical CI/CD pipelines, and high-availability bare-metal and AWS cloud systems. Solid full-stack developer with well-rounded experience engineering intuitive web applications, internal developer tooling, and test authoring editors. Recognized with multiple internal company excellence awards for technical leadership, operational impact, and cross-functional delivery.

CORE COMPETENCIES & TECHNICAL SKILLS

- SYSTEMS & BACK-END ENGINEERING**
 - Distributed Systems Design
 - High-Availability Microservices
 - Multi-OS Platforms (Linux, Win, macOS)
 - Concurrency & Async I/O
 - RESTful APIs
 - Full-Stack Web Development

- VIRTUALIZATION & INFRASTRUCTURE**
 - AWS Cloud (EC2, EKS)
 - Kubernetes (K8s)
 - VMware vSphere Clusters
 - Linux, Windows & macOS Admin
 - Zero-Drift Node Recycling
 - In-House Cluster Checkout & Revert

- CI/CD & DEVOPS ORCHESTRATION**
 - Pipeline-as-Code (Groovy, Kotlin)
 - Jenkins Administration
 - Concourse CI
 - Automated Quality Gates
 - Docker
 - JFrog Artifactory
 - GitHub Enterprise & Bitbucket

- TEST AUTOMATION & QUALITY ENGINEERING**
 - Test42 Framework & Web Editor
 - Selenium & Appium
 - End-to-End (E2E) Testing
 - RESTful API Testing
 - Multi-OS Validation
 - Deterministic Test Harnesses
 - Integration & Regression Suites
 - Root Cause Analysis (RCA)

- LANGUAGES & FRAMEWORKS**
 - Java
 - C#
 - Python
 - Bash
 - PowerShell
 - Kotlin
 - Go
 - C++
 - SQL
 - TypeScript / JS
 - React / Angular
 - HTML5 / CSS3

- LEADERSHIP & DELIVERY GOVERNANCE**
 - Agile / Scrum Sprint Leadership
 - Cross-Functional Alignment
 - Mentoring & Technical Coaching
 - Engineering Quality Governance
 - Zero-Defect Release Standards
 - Entrepreneurial Systems Design

PROFESSIONAL EXPERIENCE

Code42 (Acquired by Mimecast)

Minneapolis, MN (Remote / Hybrid)

Senior CI/CD Software Engineer & Systems Administrator

2023 – Present

- Architected, modernized, and administered the global continuous integration and deployment infrastructure powering enterprise data protection and insider threat products; implemented automated quality gates inside Jenkins and Concourse CI ensuring rigorous zero-defect release bars.
- Designed and maintained modular, pipeline-as-code architectures across Jenkins (Groovy shared libraries) and Concourse CI (pipeline templates), enabling dozens of distributed development teams to build, verify, and release microservices and client applications reproducibly.
- Administered high-concurrency VMware vSphere bare-metal virtualization clusters, Docker container environments, and AWS cloud systems (EC2, EKS / Kubernetes), dynamically provisioning multi-OS virtual build and test runners optimized for rapid execution, full isolation, and resource efficiency.
- Governed enterprise JFrog Artifactory repositories and version control platforms (GitHub Enterprise, Bitbucket, Jira), automating PR verification webhooks, branch protection policies, security scanning hooks, and build artifact promotion lifecycles.

PROFESSIONAL EXPERIENCE (CONTINUED)

Code42

QA Automation Engineer & Framework Engineer

Minneapolis, MN

2016 - 2023

- Served as a core framework engineer developing Test42, Code42's in-house automated test platform; engineered backend execution harnesses, runner utilities, and deterministic validation engines for endpoint and server architectures, alongside web-based UI editor tools for test authoring and configuration.
- Authored, optimized, and maintained thousands of automated regression, integration, and performance test suites executing daily across Windows, macOS, and Linux platforms, safeguarding data reliability and fault tolerance.
- Authored and executed comprehensive automated installation and upgrade verification test suites across all supported software versions and operating systems (Windows, macOS, Linux), validating product compatibility and data migration integrity prior to every new release.
- Designed and executed automated API verification suites validating continuous data synchronization, local cache consistency, high-volume data throughput, and secure network transmissions.
- Partnered closely with systems developers, security engineers, and product managers to govern defect lifecycles in Jira, performing deep root-cause investigations and preventing regression escapes across major commercial releases.

EDUCATION

Bachelor of Science (B.S.) in Computer Science & Mathematics

DOUBLE MAJOR

Duluth, MN

University of Minnesota Duluth (UMD) • Minor: Computer Engineering

Associate of Arts (A.A.)

Duluth, MN

Lake Superior College

HONORS & AWARDS

- **Back of the House Powerhouse** (Code42 | Jan 2023) — Recognized as a top contributor for vital, high-impact systems, CI/CD pipelines, and infrastructure engineering powering company operations behind the scenes.
- **Light-bulb Engineer of the Year** (Code42 | Jan 2017) — Awarded for engineering innovation in architecting an automated CI pipeline scraper to detect failing tests, aggregate diagnostics, and automate defect filing.
- **Rookie of the Year** (Code42 | Jan 2017) — Honored for rapid onboarding, engineering excellence, and immediate high-value impact during first year at Code42.

KEY TECHNICAL CONTRIBUTIONS & PROJECTS

- **PipelineKt (code42/pipelinekt Contributor):** Core contributor to Code42's open-source Kotlin library for programmatic, type-safe generation and declarative orchestration of enterprise Jenkins CI/CD pipelines.
- **RederSoft Systems & Web Platform:** Founder of an entrepreneurial systems initiative engineering streamlined CI/CD deployment pipelines, automated templates, and scalable web solutions enabling rapid, low-cost delivery of high-performance websites for small-and-medium-sized businesses (SMBs).