

MATTHEW CLARK

Lead Software Engineer | Frontend Architecture | Technical Leadership

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PROFESSIONAL SUMMARY

Lead software engineer with 5+ years of experience architecting customer-facing applications and improving the systems teams use to build, test, deploy, and support software. Built two life insurance applications from the ground up using React, TypeScript, and Redux while leading complex transaction delivery across frontend, API, orchestration, business-event, and downstream-service boundaries. Establishes repeatable engineering standards, mentors developers, and connects technical architecture to measurable business and operational outcomes.

PROFESSIONAL EXPERIENCE

STATE FARM | Orlando, FL | June 2021–Present

Lead Software Engineer (since Sept 2023); Software Engineer (June 2021–Sept 2023)

Architecture and Product Delivery

- Architected and built two customer-facing life insurance applications from the ground up using React, TypeScript, and Redux, establishing reusable architecture, state-management, testing, and delivery patterns across both products.
- Built a shared component and module library adopted across both applications, with roughly 40 common modules supporting over 90 source and test files that reference shared state or logic.
- Led frontend architecture and cross-layer delivery for high-stakes life insurance transaction workflows supporting 1,404 submissions across 1,174 distinct policies during a measured 30-day production period.
- Owned complex transaction experiences including beneficiary changes, electronic funds transfer, and policy-rating reconciliation while contributing reusable architecture across ten related workflow families.
- Traced and troubleshooted workflows across frontend, API, orchestration, business-event, and downstream-service boundaries to resolve complex issues and improve end-to-end delivery.
- Led modernization of both applications from a retiring internal UI framework to a current enterprise design system, strengthening testing, runtime packaging, and shared delivery controls throughout the migration.

Quality, Security, and Reliable Delivery

- Built the primary application's TypeScript testing capability from zero test files to 131 files and 2,197 passing tests, achieving 95.35% statement, 84.75% branch, 94.76% function, and 95.46% line coverage.
- Implemented repeatable quality controls across both applications for code quality, type checking, spell checking, test coverage, and static accessibility analysis.
- Refined multistage Docker images to serve static assets through nginx, excluding more than 600 MB of build-time frontend dependencies from the final runtime images across both applications.
- Led remediation of 10 application vulnerabilities, including multiple critical CVEs, resolving eight within service-level targets.
- Delivered containerized frontend applications through Red Hat OpenShift on AWS using standardized runtime packaging and shared deployment controls.

Business and Cross-Team Impact

- Led cross-functional discovery across application engineering, enterprise data, analytics, and business teams to define the architecture required to replace recurring manual policy reporting with automated analytics.
- Traced reporting fields end to end across frontend behavior, backend services, enterprise JSON/XML events, and the enterprise analytics layer; confirmed data visibility in the raw data layer and aligned stakeholders around the remaining implementation path.

Developer Enablement and Technical Leadership

- Built a practical engineering knowledge base covering workstation setup, application inventory, transaction behavior, test environments, production support, and contribution workflows with cross-platform guidance, validation checklists, and technical inventories to reduce reliance on tribal knowledge and improve onboarding for incoming engineers. Adopted by other engineers on the team.

- Automated deployment visibility for six applications across four shared test environments, covering 24 application-environment combinations with 15-minute refreshes; 100 scheduled pipeline runs completed successfully during a measured validation window.
- Mentored one engineer directly and supported a six-engineer team through code reviews, pairing, technical guidance, documentation, developer presentations, and candidate interviews.

TECHNICAL SKILLS

Frontend: TypeScript, JavaScript, React, Redux Toolkit, HTML, CSS, Vite, Vitest, Axios

Quality and Delivery: GitLab CI/CD, automated testing, coverage strategy, ESLint, accessibility analysis, Docker, nginx, vulnerability remediation

Systems and Operations: Git, GitLab, Dynatrace, Red Hat OpenShift on AWS, REST APIs, JSON, XML, Java, Maven

Leadership: Application architecture, engineering standards, mentoring, interviewing, technical documentation, cross-team alignment

EDUCATION AND CREDENTIALS

Bachelor of Science in Computer Science

Bellevue College — Bellevue, Washington