

Ethan Caffrey

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SUMMARY

Full-stack engineer spanning customer-facing SaaS (Canto) to cloud infrastructure security (Ericsson) – React/TypeScript frontends, Java/Spring Boot backends, Kubernetes/Helm hardening across 115+ services. Builds own tooling to move faster: spec-driven AI workflows, internal process automation.

SKILLS

Languages: Java, TypeScript, Python

Frameworks: React, Redux, TanStack Router/Query, GraphQL, Spring Boot, REST APIs, WebSockets, microservices

Cloud & DevOps: AWS, Docker, Kubernetes, Helm, GitLab CI/CD

Tools & Infrastructure: MySQL, SQLite, DynamoDB, OpenSearch, Cypress, JUnit, New Relic, Git

Practices: Agile/Scrum, code review, system design, technical documentation, spec-driven development

EXPERIENCE

Software Engineer II, Canto

Feb 2025 – Present

- Co-developed asset collection, a feature used daily by 75%+ of customers, porting it from the legacy UI and shipping new functionality via full-stack implementation and system design input
- Prototyped an architectural overhaul of a core backend GraphQL service, covering partial-failure handling, multi-table transactions, and a router-based re-architecture
- Adopted spec-driven development (Claude Code, Kiro) for feature work and bug fixes; built a retrospective skill that runs after each session to refine the agent's success rate
- Led the routing migration to TanStack Router, resolving a long-standing scroll-restoration bug that had affected customers
- Cut CI/CD pipeline time by ~25% after auditing the e2e suite and removing flaky Cypress tests
- Investigated four technical initiatives spanning frontend, backend, and delivery process, producing scoped proposals
- Served as team Scrum Master and mentored interns

Software Engineer, Ericsson

Jul 2023 – Jan 2025

- Implemented hardened container security profiles across ~115 services on the cloud platform using Docker, Kubernetes, and Helm to meet internal compliance requirements
- Researched and produced a technical roadmap and POC for container security, shaping the platform's longer-term security direction
- Built a full-stack internal tool to visualize Git repository metrics, giving stakeholders a clearer view of codebase health across teams
- Automated Helm chart generation for testing workflows, reducing turnaround from ~2 days to ~3 hours

EDUCATION

BSc (Honours) in Software Development, Technological University of the Shannon

2023

- First Class Honours (1.1); Thesis: Computer-Vision Mobile App to Improve Exercise Form (1.1)

PROJECTS

Liked Song Memories — C, libcurl, cJSON

- Built a CLI tool in C, without AI assistance, that surfaces Spotify songs liked on the same calendar day in past years, implementing OAuth 2.0 via a raw POSIX socket server and rendering album art in a ncurses terminal UI via the kitty graphics protocol