

STEVE BOYER

Principal Software Engineer

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CAREER HIGHLIGHTS

- 10+ years building and owning large-scale event-driven Java platforms from architecture through production, with end-to-end responsibility for design, delivery, and on-call operations.
- 60+ high-availability enterprise Java applications under sole full-time engineering ownership, serving 2,000+ users and powering 2M+ transactions per day across an enterprise telecom platform.
- 8-engineer cross-functional team led (contractors and offshore contributors) as sole FTE, defining engineering standards, architecture, and roadmap with no paved path.
- 60+ services standardized on a single Jenkins and Docker CI/CD framework, replacing manual release procedures with reproducible build, test, and deploy pipelines.
- Platform-wide modernization from JBoss 5 to WildFly delivered, restoring vendor support and unblocking the modernization roadmap for the entire application portfolio.
- 3 Anthropic Claude API call patterns built in a production-shaped iOS side project (multimodal vision, OCR plus LLM, refinement passes) with multi-model orchestration, prompt caching, and a USDA-grounded evaluation pipeline.

EXPERIENCE

Principal Software Engineer Verizon

Oct 2022 – Present
Colorado Springs, CO

- Owns 60+ high-availability Java applications as sole full-time engineer on Spring Boot, Jakarta EE, and WildFly across on-prem RHEL infrastructure, serving 2,000+ users and multiple downstream systems.
- Leads 8-engineer team of contractors and offshore contributors as the only FTE; defines engineering standards, conducts code reviews across all experience levels, and mentors on architecture, testing, and operational practices.
- Platform-wide modernization delivered: drove upgrade from JBoss 5 to WildFly, restoring vendor support and unblocking the modernization roadmap for 60+ services.
- 60+ services standardized on Jenkins and Docker CI/CD, replacing manual release procedures with reproducible build, test, and deploy pipelines across the full application portfolio.
- Architected Kafka-based event pipelines for high-throughput asynchronous processing across distributed platform services, replacing batch-oriented patterns with event-driven workflows.
- 6 production databases and dozens of backend services covered through root-cause analysis and on-call production support, owning operational responsibility for the platform end-to-end.
- Integrated internal and partner-facing APIs through Apigee on GCP, operating cross-cutting integrations across authentication, observability, and data tiers.
- Adopted LLM-powered engineering tooling (Claude Code with Model Context Protocol integrations) into daily development workflow for refactoring, code review, and exploratory analysis across legacy and greenfield Java codebases.

Senior Software Engineer Verizon

May 2019 – Oct 2022
Irving, TX

- Owned end-to-end backend Java and Spring feature delivery from design through production deployment, including RESTful APIs and asynchronous event-driven components for high-throughput workflows.
- 60+ applications onboarded onto the ELK stack with standardized Logstash log ingestion, materially improving production diagnostics and platform observability.
- Optimized Oracle SQL queries and schema design to lift core application performance and reduce query latency on hot transaction paths.
- Automated recurring local workflows and operational tasks with Bash and Python scripts, eliminating manual steps in day-to-day platform operations.

Software Application Programmer III Brookssource (Verizon Contractor)

Apr 2018 – Apr 2019
Colorado Springs, CO

- Extended and debugged enterprise Java web applications using JBoss, MySQL, and Hibernate across a portfolio of mission-critical platform services.
- Integrated static code analysis and security scanning into build processes, raising baseline code quality and surfacing vulnerabilities earlier in the pipeline.

- Built RESTful APIs and Java/Spring backend services for small enterprise clients as an independent contractor.
- Developed backend Java components, REST endpoints, and UI features for a cloud-based translation platform; integrated third-party APIs including Oracle Service Cloud and Salesforce.

PROJECTS

MacroScape (in development)

2025 – 2026

iOS *calorie and macro tracker*, SwiftUI / SwiftData / Swift 6

- 3 Anthropic Claude API call patterns built in a solo-developed iOS application: multimodal food-photo analysis, OCR-then-LLM nutrition-label parsing, and user-correction refinement, with multi-model support (Haiku, Sonnet, Opus) selectable at runtime.
- LLM evaluation pipeline built to ground Claude’s photo-derived nutrition estimates against USDA Food Data Central, falling through to the model’s answer only when external data is out of plausible range.
- 4 AI observability features implemented: prompt caching with ephemeral cache_control blocks, per-model token and cost tracking, per-call request logging, and Keychain-based credential handling. Active development uses Claude Code with XcodeBuildMCP for build automation through MCP.

PuckWatch

2026

github.com/steveboyer/puck-watch

- Event-driven NHL alert microservice built on Spring Boot 4, RabbitMQ, MySQL, Gradle, and GitHub Actions CI; polls upstream APIs on a scheduled interval, detects state changes, deduplicates events, evaluates per-subscriber alert rules, and persists notifications as a clean reference architecture for orchestrated, event-triggered workflows.

EDUCATION

Colorado State University Global

M.S., *Artificial Intelligence and Machine Learning*

In Progress
Remote

University of Wyoming

B.S., *Computer Engineering*

2015
Laramie, WY

SKILLS

Languages: Java, Python, Swift, Bash, SQL

Backend and Frameworks: Spring Boot, Spring MVC, Jakarta EE, Hibernate/JPA, JUnit, RESTful APIs, TDD, Design Patterns, Object-Oriented Design

Architecture: Microservices Architecture, Event-Driven Architecture, Distributed Systems, High-Availability Design, Fault Tolerance, Service-Oriented Architecture, System Integration, Performance Tuning, Software Architecture

Messaging and Streaming: Apache Kafka, RabbitMQ

Data: Oracle DB, MySQL, SQL Optimization, Schema Design

Platforms and Infrastructure: WildFly, JBoss, Linux (RHEL), Apigee on GCP

DevOps and Automation: Jenkins, GitHub Actions, Docker, Git, Maven, Gradle, CI/CD, ELK Stack, DevSecOps, Vulnerability Remediation, Secure Coding

AI and LLM Tooling: Anthropic Claude API (multimodal, prompt caching, multi-model orchestration, evaluation pipelines), Model Context Protocol (MCP, including XcodeBuildMCP), Claude Code (daily use), prompt engineering, AI-Assisted Development, M.S. AI/ML coursework (in progress)

Leadership: Autonomous Project Ownership, Technical Mentorship, Engineering Standards, Code Reviews, Cross-Functional Collaboration, Technical Vision

AWARDS

Eagle Scout, Boy Scouts of America (Feb 2009)