

Matthew C. Feret

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Professional Summary

Senior software engineer with 10+ years in financial services and e-commerce. Technical leader on a high-volume home-loan platform (Java/Spring Boot on AWS), and sole engineer behind an enterprise underwriting application delivered in four months with agentic AI. Strong in architecture, AWS infrastructure as code, and performance tuning.

Technical Skills

Languages, Frameworks & Data: Java, Spring Boot, Python, FastAPI, TypeScript, C#/.NET, SQL, Cassandra, JMS
AWS & IaC: ECS/Fargate, Lambda, Step Functions, Aurora PostgreSQL, DynamoDB, S3, MSK (Kafka), Amazon MQ, ALB, Route 53, IAM, Terraform

CI/CD & Observability: Jenkins, Spinnaker, Docker, Kubernetes, Liquibase, CloudWatch, Dynatrace, Splunk

Practices: Agile (Scrum, Kanban), microservices, REST APIs, blue-green deployments, multi-region failover

AI Development: Claude Code, GitHub Copilot, MCP tools, Spec Kit (spec-driven development), sub-agent orchestration

Professional Experience

Senior Software Engineer — JPMorgan Chase, Wilmington, DE · Jun 2022 – Present

- Designed, built and deployed as the sole engineer a full-stack enterprise mortgage income-calculation application (TypeScript UI, Python/FastAPI services, Aurora PostgreSQL) integrated with document and income-verification services, replacing an Excel-based process for several hundred daily underwriters; delivered in 10 sprints (~4 months)
- Directed the build with agentic AI tools (Claude Code, GitHub Copilot, MCP, Spec Kit): wrote the specs, orchestrated sub-agents, and reviewed and tested the generated code like any other PR before release
- Technical leader on a home-loan team: develop and operate Java/Spring Boot microservices (REST, JMS) handling thousands of daily transactions (up to ~10,000 on peak days) via Jenkins, Spinnaker, and AWS
- Team's early adopter of new tools, sharing them across teams; ran a workshop on the Snyk CLI so engineers catch code-quality issues in their IDEs before the release pipeline (shift left)
- Cut a high-volume transaction from ~2s to ~25ms (~80x) by replacing developer-added delay jitter with an atomic database operation, fixing a race condition and draining a 10,000-message backlog
- Provisioned the full AWS infrastructure with Terraform (ECS/Fargate, Lambda, Step Functions, ALB, Route 53), including multi-region failover, blue-green deployments, and ADFS single sign-on
- Built a reusable, polymorphic S3-integration platform adopted by four teams, each writing to its own buckets

Software Engineer (promoted Oct 2019) — Qurate Retail Group, West Chester, PA · Aug 2018 – Jun 2022

- Primary developer, with overseas colleagues, on a new global dropship system; built tested Java/Spring Boot services deployed with Docker, Kubernetes, and Jenkins
- Integrated a new transportation management system; resolved production issues with Splunk and Dynatrace

Software Developer — Deacom Inc., Chesterbrook, PA · Jun 2017 – Aug 2018

Junior Software Developer — Advanced Technology Group, King of Prussia, PA · Jun 2015 – Jun 2017

Projects

mferet.com — Home automation platform with hardware safety interlocks and ~140 tests in CI (Python); FastAPI commute planner; WeatherTunes, forecasts turned into music (JavaScript)

Certifications & Education

AWS Certified Developer – Associate (2024) · B.S. Computer Science, West Chester University (2016)