

Omar Patel

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SUMMARY

Principal software engineer with 17 years of experience shaping **enterprise SaaS**, cloud native developer platforms, and large scale **distributed systems**. Java expertise covers **application lifecycle** services, CI/CD, **automated testing**, observability, reliability, fault tolerance, security, performance, and production operations. Converts ambiguous platform goals into durable architectures, prototypes, reference implementations, and standards adopted across teams. Recent work includes AI assisted test generation, agentic remediation, developer productivity measurement, and customer facing platform design for technical enterprise users. Leads complex initiatives through influence across Engineering, Product Management, and Design, mentors senior engineers, and balances platform evolution with delivery commitments. Combines hands on architecture with practical operational judgment, helping teams improve software quality, developer experience, and customer outcomes through scalable platform decisions.

EXPERIENCE

Principal Software Engineer, Developer Platform

January 2022 - Present

Asteron Cloud Platforms

Denver, CO

Leads architecture for a multi tenant **application lifecycle** platform serving technical enterprise users. Guides platform strategy, developer productivity initiatives, AI assisted workflows, operational readiness, and cross functional decisions across engineering, product, and design.

- Set **Java** platform **architecture** for enterprise lifecycle services, supporting more than 9,000 technical users.
- Designed resilient messaging and fault isolation, improving horizontal scaling across distributed platform services.
- Established **CI/CD reference architectures** and automated test gates for repeatable software delivery.
- Prototyped AI assisted test generation and agentic remediation with human review controls.
- Introduced service objectives, tracing, capacity reviews, and failure exercises across production services.
- Mentored senior engineers and aligned product leaders on adoption, sequencing, and architecture tradeoffs.

Senior Staff Software Engineer

March 2018 - December 2021

Brightline Enterprise Software

Boulder, CO

Directed developer tooling and testability platform architecture for configurable enterprise applications. Connected technical customer feedback with prototypes, platform standards, reliability improvements, and scalable delivery practices across multiple engineering teams.

- Led developer tooling design for building, validating, and deploying configurable enterprise applications.
- Reworked Java service boundaries and asynchronous flows, simplifying tenant workload scaling.
- Created stable testability APIs and deterministic fixtures for thousands of integration tests.
- Validated developer **prototypes** with technical customers, turning recurring pain points into releases.
- Defined security, **observability**, **performance**, API compatibility, and operational ownership standards.
- Coached senior engineers through cross team **reliability** and performance investigations.

Staff Software Engineer

June 2014 - February 2018

VertexWorks SaaS

Fort Collins, CO

Built platform services supporting build artifacts, configuration metadata, deployment state, extension lifecycles, and automated quality checks. Partnered with operations and product teams on production performance, support reduction, and dependable release workflows.

- Developed Java services for build artifacts, configuration metadata, and extension lifecycles.
- Designed **deployment automation** with versioned manifests and recoverable state transitions.
- Implemented metrics, logs, traces, and dashboards for latency and dependency diagnosis.
- Built **automated testing** services and CI integrations for repeatable regression execution.
- Used profiling and load testing to resolve production bottlenecks in enterprise workloads.
- Converted recurring support issues into platform improvements with operations and product partners.

Software Engineer to Senior Software Engineer

July 2009 - May 2014

Cobalt Ridge Systems

Colorado Springs, CO

Progressed from Java software engineer into shared service ownership for enterprise workflow products. Delivered APIs, background processing, testing improvements, **performance** diagnosis, and reusable development practices supporting dependable distributed processing.

- Built Java components for enterprise workflow products and progressed into shared service ownership.
- Implemented APIs and background processing for packaging, validation, and configuration workflows.
- Expanded unit and integration tests using repeatable data patterns for complex scenarios.

- Diagnosed concurrency, memory, and database performance issues through controlled load testing.
- Added retry controls, defensive error handling, and instrumentation for distributed processing.
- Reviewed designs and documented reusable service development and deployment practices.

PROJECTS

AI Assisted Quality Workflow 📅 2024

Some platform improvements begin as small questions. Prototyped AI assisted test generation and agentic remediation with observability, human review, and practical adoption controls for engineering teams.

Enterprise Lifecycle Reference Architecture 📅 2023

Good architecture earns trust before broad rollout. Created reference patterns for Java services, CI/CD integration, automated testing, deployment safety, and production readiness across lifecycle workflows.

LEADERSHIP & AWARDS

- Architecture leadership recognition for advancing enterprise developer platform standards and cross team technical direction.
- Senior engineering mentorship recognition for guiding engineers through complex reliability, performance, and platform initiatives.
- Customer partnership recognition for converting technical feedback into practical developer tooling and platform improvements.

EDUCATION

Bachelor's Degree in Computer Science

2009

University of Colorado Colorado Springs GPA: 0

Colorado Springs, CO

Coursework: Distributed systems, software engineering, database systems, operating systems

CERTIFICATIONS

- Oracle Certified Professional, Java SE 📅 2020
- AWS Certified Solutions Architect, Professional 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Java, SQL, Bash
- **Cloud Platforms:** AWS, Amazon EC2, Amazon S3
- **Developer Tooling:** CI/CD, build automation, deployment automation
- **Testing Technologies:** Automated testing, integration testing, test generation
- **Distributed Systems:** Resilient messaging, asynchronous processing, fault isolation
- **Observability Tools:** Metrics, logs, distributed tracing
- **Reliability Engineering:** Service objectives, failure exercises, capacity reviews
- **Architecture Practices:** Reference architectures, prototypes, proof of concept
- **AI Development:** AI assisted workflows, agentic remediation, intelligent automation
- **Platform Engineering:** Application lifecycle management, DevEx, developer productivity
- **Performance Engineering:** Profiling, load testing, latency analysis
- **Security Engineering:** Security standards, human review controls, defensive error handling

SKILLS

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|-----------------------|-------------------------|-------------------|---------------------------|
| • Distributed systems | • Application lifecycle | • AI workflows | • Security |
| • Java | • CI/CD | • Agentic systems | • Performance engineering |
| • Cloud native | • Automated testing | • Observability | • Technical strategy |
| • Developer platforms | • DevEx | • Reliability | |

PROFESSIONAL AFFILIATIONS

- Collaborated with Engineering, Product Management, and Design leaders on platform strategy and adoption decisions.
- Partnered with operations and technical customers to connect production insight with developer productivity improvements.

LANGUAGES

- English (Native)
- Hindi (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST