

Ezekiel Curtis

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SUMMARY

Senior Java developer with eight years of commercial experience delivering distributed, real time industrial and connected machine platforms. Builds Java applications, Spring and Spring Boot microservices, RESTful APIs, **database solutions**, CI/CD pipelines, and resilient services that support telemetry, guidance, monitoring, and fleet control. Leads delivery from refinement and architecture through implementation, **automated testing**, release, observability, incident response, **root cause analysis**, and sustainable remediation. Guides custom agent squads through requirements, design, code generation, documentation, review, defect triage, and production support. Applies prompt engineering, AI orchestration, responsible AI governance, risk assessment, traceability, quality gates, and **human in the loop validation**. Creates reusable workflows and mentors engineers while protecting security, maintainability, domain accuracy, and production readiness.

EXPERIENCE

Senior Java Developer and AI Delivery Lead

October 2023 - Present

IronTrail Digital Systems

Dallas, TX

Leads Java and Spring Boot delivery for connected industrial systems, custom agent squads, production operations, and engineering quality. Guides architecture, refinement, implementation, release, validation, and mentorship across Product, Engineering, and Quality Engineering.

- Led **Spring Boot** services for connected systems, processing machine telemetry and control data reliably.
- Orchestrated **custom AI agents** across requirements, design, testing, documentation, review, and defect triage.
- Established human in the loop gates for security, correctness, traceability, and **production readiness**.
- Created **reusable prompts**, agent skills, templates, and playbooks adopted by adjacent engineering teams.
- Directed **CI/CD** releases and operations, communicating delivery risks across Product and **Quality Engineering**.
- Coached engineers through pairing, design reviews, workshops, and incident retrospectives for stronger delivery.

Senior Software Engineer

October 2021 - September 2023

RedMesa Autonomous Platforms

Fort Worth, TX

Owned distributed Java services for real time fleet monitoring and guidance, balancing architecture, resilience, security, performance, testing, and **production support**. Mentored engineers and converted operational evidence into durable engineering improvements.

- Designed Spring Boot **microservices** and REST APIs for real time fleet monitoring and guidance.
- Produced architecture decisions balancing database consistency, resilience, security, performance, and support needs.
- Introduced AI assisted coding with structured prompts, human validation, and documented failure modes.
- Strengthened automated testing, **dependency management**, **peer review**, and CI/CD quality controls across services.
- Led incident analysis with telemetry and logs, then implemented sustainable root cause fixes.
- Mentored Java engineers on Spring, **secure coding**, distributed architecture, **observability**, and technical tradeoffs.

Software Engineer II

October 2020 - September 2021

QuarryLink Software

Arlington, TX

Delivered **Java** and **Spring** services for industrial fleet applications, improving testing, deployment packaging, observability, API security, and defect resolution. Worked closely with Product and Quality Engineering on acceptance criteria and release readiness.

- Developed Java and Spring services with REST APIs and database workflows for fleet applications.
- Added unit and integration tests, using review findings to improve **maintainability** before **release**.
- Built **CI/CD** steps for compilation, dependency checks, testing, and deployment packaging.
- Implemented structured logging and health metrics, giving support teams clearer incident evidence.
- Applied **secure coding** to API validation and configuration before production deployment.
- Clarified acceptance criteria with Product and Quality Engineering, converting defects into durable fixes.

Software Engineer

October 2018 - September 2020

FieldCore Technology Labs

Richardson, TX

Built Java and Spring components for connected equipment systems under senior guidance, supporting REST services, database operations, **automated testing**, release pipelines, monitoring, documentation, and secure production delivery.

- Built **Java** and **Spring** components for connected equipment systems under senior technical guidance.
- Implemented REST endpoints and database operations for machine status and usage records.
- Debugged failures with automated tests, logs, reproducible cases, and peer reviewed fixes.
- Supported build, **dependency management**, and pipeline configuration for application releases.
- Added monitoring and operational documentation, giving support teams clearer service context.
- Presented design decisions in reviews and incorporated **security**, resilience, and maintainability feedback.

PROJECTS

Connected Fleet Guidance Platform 📅 2023

Built distributed Java services for machine telemetry, fleet monitoring, guidance, and control workflows. Applied Spring Boot, REST APIs, database design, observability, and resilient service practices for real time operations.

Human Validated Agent Delivery Framework 📅 2025

Created reusable prompts, agent skills, workflow templates, quality gates, and validation steps for AI assisted engineering. Preserved human accountability across correctness, security, traceability, maintainability, and production readiness.

LEADERSHIP & AWARDS

- Technical leadership recognition for coordinating custom agent delivery across engineering workflows and production quality gates.
- Engineering mentorship recognition for coaching Java developers through design reviews, workshops, pairing, and incident retrospectives.
- Delivery leadership recognition for connecting refinement, automated testing, CI/CD release, observability, and sustainable remediation.

EDUCATION

Bachelor of Science in Computer Science

2018

University of Texas at Dallas GPA: 3.5

Richardson, TX

Coursework: Data Structures, Distributed Systems, Database Systems, Software Engineering

CERTIFICATIONS

- Oracle Certified Professional: Java SE 11 Developer 📅 2020
- Microsoft Certified: Azure AI Engineer Associate 📅 2025

TECHNICAL SKILLS

- **Java Frameworks:** Java, Spring, Spring Boot
- **Service Architecture:** Microservices, Distributed Architecture, Resilient Services
- **API Development:** RESTful APIs, API Integrations, API Validation
- **Databases:** Modern Databases, Database Consistency, Database Workflows
- **Testing:** Automated Testing, Unit Testing, Integration Testing
- **Delivery Pipelines:** CI/CD, Build Automation, Deployment Packaging
- **DevOps Operations:** DevOps, Production Support, Release Management
- **Observability:** Telemetry, Structured Logging, Health Metrics
- **AI Engineering:** Custom AI Agents, AI Orchestration, Agentic Workflows
- **Prompt Design:** Prompt Engineering, Reusable Prompts, Workflow Templates
- **AI Governance:** Responsible AI, Risk Assessment, Traceability
- **Quality Validation:** Human in the Loop Validation, Quality Gates, Artifact Validation
- **Security Engineering:** Secure Coding, Security Validation, Configuration Security
- **Reliability Engineering:** Incident Response, Root Cause Analysis, Sustainable Remediation
- **Collaboration Tools:** Peer Review, Technical Documentation, Delivery Playbooks

SKILLS

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|-----------------|-----------------|----------------------|----------------------------|
| • Java | • CI/CD | • Prompt Engineering | • Automated Testing |
| • Spring Boot | • DevOps | • AI Orchestration | • Root Cause Analysis |
| • Microservices | • Observability | • AI Governance | • Distributed Architecture |
| • RESTful APIs | • Secure Coding | • Agentic Workflows | |

PROFESSIONAL AFFILIATIONS

- Product, Engineering, and Quality Engineering collaboration across connected machine software delivery.
- Java engineering community participation through mentoring, design reviews, pairing, and technical workshops.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST