ADITYA AHIR

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ABOUT

I build **AI-powered backend systems** and **microservices architectures** that handle millions of transactions — **3.7 years** transforming legacy monoliths into modern, scalable solutions. Expert in **Spring Boot, AI agents, and automation** with focus on **measurable business impact** and **clean code**.

KEY SKILLS

Backend: Java 17, Spring Boot (MVC, IOC, AOP, Security), WebFlux, Microservices, REST APIs, Node.js
AI/Automation: Google ADK, MCP Servers, AI Agent Development, LLM Integration, Intelligent Automation
Cloud & DevOps: AWS (EC2, S3, RDS), GCP, Azure, Docker, Kubernetes, Jenkins, CI/CD
Data: MongoDB, PostgreSQL, MySQL, Kafka, Event-Driven Architecture, ETL Pipelines
Frontend: React, Next.js, TypeScript, Tailwind CSS
Domain: E-commerce, Cart & Checkout, Installation Services, Fintech, Real-Time Data Processing

EXPERIENCE

SOFTWARE ENGINEER, LOWE'S INDIA | MAY 2024 – PRESENT
Cart & Checkout – AI-Powered Quoting & Installation Services
• Built AI QuoteBuilder Agent using **Google ADK and MCP** servers automating complex quotes**, reducing questionnaire time by 60%** through intelligent form filling and context-aware suggestions
• Architected microservices migration from legacy to Spring Boot, **reducing legacy dependency by 80% while processing 5M quotes/month with 99.9% uptime**
• **Implemented event-driven architecture** with **Kafka** handling **10K+ events/second**, enabling real-time cart updates and quote processing across distributed services
• **Drove GCP/Kubernetes deployment with auto-scaling, achieving sub-second latency and zero downtime during Black Friday/Cyber Monday**
• **Optimized database performance (MongoDB, DB2) reducing query times by 60% through indexing and data model redesign**
• **Built CI/CD pipelines (Jenkins, GCP) enabling daily deployments with 85%+ test coverage and automated performance testing**
• **Mentored 3 engineers** on microservices patterns and AI integration, improving team velocity by **25%**
Tech: Java 17, Spring Boot, WebFlux, Google ADK, MCP, Kafka, MongoDB, DB2, GCP, Kubernetes, Jenkins, React

ASSOCIATE SOFTWARE ENGINEER, LOWE'S INDIA | AUG 2022 – MAY 2024
Order Recovery System – Full-Stack Development
• Engineered full-stack application improving efficiency by 30% using React (Redux) and Spring Boot/WebFlux
• Applied design patterns (Factory, Singleton, Observer) ensuring maintainable, scalable architecture
• **Integrated external APIs with comprehensive error handling and retry logic**
• **Achieved 80%+ test coverage** through TDD approach with JUnit, integration tests, and E2E testing
Tech: React, Redux, Java 17, Spring Boot, WebFlux, PostgreSQL, Git, Jenkins

KEY PROJECTS

GoldLens – Real-Time Macro Risk Dashboard for Gold | [https://goldlens-ui.vercel.app/] | GitHub
• Built **full-stack fintech dashboard** tracking gold prices through macro indicators (US Real Yields, DXY, ETF flows) with real-time data ingestion
• **Backend:** Spring Boot with PostgreSQL, scheduler-based API ingestion, Excel ETL pipeline, REST APIs
• **Frontend:** Next.js (SSR), Recharts, React-Simple-Maps for interactive world map visualization
• **Engineering:** Rate-limit-aware ingestion, graceful API degradation, React 19 migration, macro signal interpretation layer
• **Impact: Answers "why gold moved?" connecting price, macro signals, capital flows, and news in real-time**
Deployed: Railway (backend) + Vercel (frontend)
Ardent Sports – Cross-Platform Tournament App
• Developed **Node.js/Express backend** (JWT auth, REST APIs) and **Flutter frontend** (Android/iOS)
• Deployed on **Azure** with auto-scaling, achieving **99.8% uptime** serving global users
Tech: Node.js, Express, Flutter, Azure, MongoDB

ACHIEVEMENTS

• **Individual Excellence Award, Lowe's** – Top team contributor for AI-powered quote automation, Black Friday readiness, client onboarding
• **Zero Production Incidents** – Maintained 100% uptime during critical shopping events through comprehensive

EDUCATION

B.Tech, Electronics and Communication Engineering | Nirma University | 2017 – 2021 | 9.0+ CGPA
Coursework: Data Structures, Algorithms, OOP, DBMS, Computer Networks, Machine Learning