

AZAD PATEL

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Software engineer with 4+ years of experience building distributed systems and cloud-native microservices, I specialize in designing high-availability applications that scale. My expertise spans full-stack development with Java, Spring Boot, React, and TypeScript, combined with deep proficiency in AWS, Kubernetes, and observability-driven engineering.

EXPERIENCE

Software Engineer | TheLaundryMobile, USA Jan 2025 – Present

- Led backend architecture using NestJS, TypeScript, PostgreSQL, and Redis, designing 100+ REST APIs supporting subscriptions, real-time tracking, and automated assignment, reducing order processing time by 38%.
- Designed distributed order management system handling 14 lifecycle states with idempotent APIs and circuit breakers, leveraging PostGIS spatial queries for real-time driver matching across 5 territories.
- Cut database query volume by 40% and P95 API latency from 450ms to 320ms by implementing read-through caching, query optimization, and strategic indexing, leveraging AI coding assistants to accelerate bottleneck analysis.
- Reduced customer support tickets by 25% by developing React Native mobile app with real-time order tracking, push notifications, and intuitive checkout flow for iOS and Android.
- Integrated Stripe payments handling subscriptions, one-time orders, and automated invoicing with 99.8% transaction reliability.

Research Assistant | California State University Long Beach, USA Aug 2024 – May 2025

- Developed NLP text classification pipeline using Python and scikit-learn, automating categorization of 10K+ research documents with 92% accuracy while maintaining model interpretability.
- Architected automated preprocessing workflows for academic research documents with tokenization and lemmatization, reducing data preparation time by 70% and enabling reproducible model retraining.

Software Engineer | Mindtree, India July 2020 – June 2023

- Owned end-to-end design of distributed full-stack systems using React, Java 17, and Spring Boot, supporting 200K+ active users across global insurance clients with 99.9% uptime.
- Built fault-tolerant microservices using Spring Security and Hibernate, implementing stateless APIs with circuit breakers, retry policies, and rate limiting, reducing production incidents by 32% and eliminating cascading failures.
- Integrated third-party APIs and payment gateways, ensuring PCI-compliant transactions across multiple regional markets.
- Optimized backend performance using PostgreSQL, MongoDB, and Redis, applying query tuning, connection pooling, and caching that reduced API response times by 40% under peak traffic.
- Led CI/CD and containerization initiatives using GitHub Actions, Docker, and Kubernetes (EKS), reducing deployment time from hours to minutes and cutting environment-related issues by 45%.
- Collaborated with cross-functional teams to scope and deliver features, improving sprint velocity by 20% through better technical planning and estimation.
- Established observability practices across production services using Prometheus, Grafana, and ELK, enabling real-time monitoring that reduced mean time to resolution (MTTR) from 2 hours to 45 minutes.

PROJECTS

Talkative (Real-time Chat Platform)

- Developed scalable messaging system using Java, Spring Boot, WebSocket, and gRPC, achieving <50ms message latency with 99.9% uptime for 1,000+ concurrent connections.

Automated Job Application Pipeline

- Engineered 3-agent AI workflow using Python, LangChain, and Selenium to automate job applications, reducing application time by 90% from 30 to 3 minutes per job.

SKILLS

- **Languages:** Java 17, TypeScript, JavaScript (ES6+), Python, SQL, C#, C++
- **Frontend:** React, Redux Toolkit, Next.js, Angular 17
- **Backend:** Spring Boot 3, Spring Security, Spring Cloud, Node.js, Express.js, REST APIs, GraphQL, gRPC, WebSockets
- **Cloud & DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD
- **Datastores & Messaging:** PostgreSQL, MySQL, Oracle, MongoDB, Redis, DynamoDB, Kafka, RabbitMQ
- **Testing & Observability:** JUnit, Mockito, Postman, OpenAPI/Swagger, Prometheus, Grafana, ELK Stack, Splunk
- **Mobile Development:** React Native, Android, Flutter, Firebase.
- **Developer Tools:** Git, Maven, Gradle, Nginx, Jira, Confluence, Xcode.

EDUCATION

Master of Science in Computer Science
California State University

May 2025
Long Beach

Bachelor of Engineering in Computer Engineering
Gujarat Technological University

Aug 2020
India