

# AZAD PATEL

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**Software engineer** with 3+ years designing scalable systems across fintech, e-commerce, and research domains. Experienced architecting end-to-end solutions from mobile apps to Java microservices. Proven track record optimizing high-traffic platforms and delivering production features through CI/CD workflows.

## EXPERIENCE

### Software Engineer — Laundry Mobile, Dover, DE

Jun 2025 – Present

- Architected and developed a comprehensive React Native mobile application for on-demand laundry services, implementing 30+ RESTful APIs and 15+ interactive screens while managing the complete SDLC.
- Engineered complex Stripe payment integration supporting 4 distinct payment models, processing 100+ weekly transactions through robust webhook handlers and real-time status synchronization.

### Research Assistant — California State University, Long Beach, CA

Aug 2024 – May 2025

- Developed an advanced NLP text classification system utilizing Python, scikit-learn, and NLTK, implementing TF-IDF vectorization with Naive Bayes classifier to categorize unstructured research documents with 92% accuracy.
- Automated data preprocessing pipeline integrating tokenization, lemmatization, and stopword removal, streamlining the model training workflow and eliminating manual data preparation steps.

### Software Engineer — 56N Software, GJ, India

Jan 2023 – Jul 2023

- Developed responsive web applications using TypeScript, ReactJS, and TailwindCSS, ensuring cross-browser compatibility and seamless mobile responsiveness across diverse device configurations.
- Optimized database performance through MongoDB indexing strategies and query refinement, reducing API response times by 30% and supporting increased concurrent user loads.
- Implemented secure authentication system using OAuth2 and JWT tokens with session management, ensuring robust security while handling thousands of daily active users.

### Full Stack Software Engineer — Rhythm Infosys, GJ, India

Aug 2020 – Dec 2022

- Designed and deployed scalable microservices architecture using Java, Spring Boot, and Node.js, handling millions of API requests daily across distributed systems.
- Enhanced application performance by implementing Redis caching layer and PostgreSQL query optimization, achieving 35% latency reduction during peak traffic periods.
- Established CI/CD pipelines using Jenkins, Docker, and Kubernetes on AWS EC2/S3, automating deployment processes and enabling continuous integration with zero-downtime deployments.
- Configured real-time monitoring infrastructure with Prometheus and Grafana dashboards, enabling proactive incident detection and faster incident resolution.
- Collaborated with cross-functional teams including QA, Product, and UX to deliver major features on schedule while maintaining high code quality standards.

## 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.

### Advanced Image Classification CNNs

- Implemented ResNet and EfficientNet models using PyTorch and MLFlow, achieving 85% accuracy on CIFAR-100 dataset, a 20% improvement over baseline.

### 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.

## TECHNICAL SKILLS

<b>Languages:</b>	Java, Python, JavaScript (ES6+), TypeScript, C/C++, SQL, Spring Boot, ReactJS, Material-UI, TailwindCSS
<b>Frontend:</b>	HTML5, CSS3, JavaScript, TypeScript, ReactJS, Redux, Material-UI, TailwindCSS, Framer Motion, Next.js
<b>Databases:</b>	SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis)
<b>Cloud/DevOps:</b>	AWS (EC2, S3), GCP, Docker, Kubernetes, Jenkins, Terraform, CI/CD Pipelines, Prometheus, Grafana
<b>Mobile:</b>	React Native, Expo, Android/iOS Development, Push Notifications, Stripe SDK
<b>Auth/Testing:</b>	OAuth2, JWT, Spring Security, Passport.js, JUnit, Mockito, Jest, Cypress, Postman

## EDUCATION

California State University, Long Beach | Master of Science in Computer Science

08/2023 – 05/2025

Gujarat Technological University | Bachelor of Engineering in Computer Engineering

07/2016 – 08/2020