SHUBHAM RAI

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EXPERIENCE

Qualcomm | Software Engineer | Hyderabad, India
Jun 2025 – Present

- Architected a cloud-native simulation platform on AWS using Spring Boot; designed an extensible relational schema and modular monolith for uniform, scalable onboarding of OEM tools.
- Led storage migration from on-premise servers to Amazon FSx (networking/protocol config); built REST APIs for simulation lifecycle, infra orchestration, and platform administration.
- Owned and extended a Java distributed scheduler on EC2, dispatching ~30,000 simulation jobs/month with high reliability and efficient resource utilization.
- Designed and shipped an AI-powered versioning & release notes system using LiteLLM and Claude API, automating context-aware changelog generation from Git history.
- Drove adoption of a Temporal workflow orchestration architecture for multi-stage simulations, defining retry strategies, dependencies, and failure recovery mechanisms.
- Leveraged Claude and GitHub Copilot across design & dev; authored custom AI skills and agentic prompts to accelerate code reviews, architecture docs, and cross-team knowledge sharing.
- Established centralized observability (logging, metrics, alerting) and drove unit test coverage gains; owned production incident resolution, reducing MTTR across a 30+ engineer organization.

Wells Fargo | Software Engineer | Hyderabad, India
Aug 2023 – Jun 2025

- Led migration of commercial loan services from legacy IBM DataPower to Spring Boot microservices (CBOA team), driving features for 30M+ monthly transactions across 10+ ledger systems.
- Built loan workflow orchestration services from scratch in Spring Boot, replacing legacy JBPM workflows; owned execution and cross-team coordination across partner teams.
- Delivered React.js/TypeScript features, including a WCAG customer booking interface and an internal PDF processing tool automated for 200+ partner team users.
- Led migration of 10+ services from Java 11 to 17 (boosting efficiency by 30%); drove unit test coverage from 20% to 95% across all microservices.
- Designed system-wide RBAC and rate limiting using Spring Security; triaged and resolved critical production bugs, driving a 15% infrastructure cost reduction.

Wells Fargo | Software Engineer Intern | Hyderabad, India
Jun 2022 – Jun 2023

- Refactored inter-microservice communication in a high-throughput event pipeline, delivering a 10x throughput improvement and eliminating downstream consumer lag.
- Built a real-time stock analytics pipeline using GCP Pub/Sub, Node.js, and Python, processing 10M+ daily events with transactional integrity.
- Built central observability and alert routing using Prometheus and Grafana, saving ~3 hours/week in debugging time.

PROJECTS & VENTURES

Zuggus (zuggus.com) — Co-founder & Lead Architect
Feb 2025 – Dec 2025

- Architected and shipped a fullstack product discovery platform from 0 to 1 using Next.js, Java/Spring Boot, and Python FastAPI on GCP, scaling to 4,000+ active products with high availability.
- Designed a semantic search engine with OpenSearch, implementing cache-aside patterns and data partitioning for sub-100ms query relevance discovery.

EDUCATION

MNIT Jaipur, B.Tech in Computer Science & Engineering | Rajasthan, India — GPA: 8.9 / 10 — Aug 2023

Achievements: LeetCode Top 8% (1500+ solved) | Finalist Oppo Inspiration Cup | Semifinalist Hackon with Amazon | Finalist Lowe's India House of Code

Courses: Data Structures & Algorithms, Object Oriented Programming, DBMS, Operating Systems, Computer Networks

SKILLS

Languages	Java, Python, JavaScript, TypeScript, C/C++, SQL, Bash
Backend & Systems	Spring Boot, Microservices, System Design, REST APIs, Kafka, Redis, Temporal, GraphQL
Frontend	React.js, Next.js, TypeScript, HTML/CSS, Responsive Design
Cloud & DevOps	AWS (Lambda, EC2, S3, IAM, ASG, FSx, CloudWatch, VPC), GCP (Pub/Sub), Docker, Prometheus, Grafana, CI/CD
Databases & Search	PostgreSQL, MySQL, Oracle, MongoDB, OpenSearch, Elasticsearch
AI & LLMs	Claude API, LiteLLM, GitHub Copilot, OpenAI API, Agentic Workflows, Prompt Engineering, RAG