MOHAMMAD UMAR SHAIKH

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SUMMARY

Software Engineer with 1.5+ years building Java and Spring Boot microservices, secure REST APIs, and LLM-based tools for US-based fintech, payments, compliance, and aerospace clients. Work spans query tuning, Java 11 to 21 modernization, AWS migration, and vulnerability remediation, plus full-stack products in Next.js and FastAPI.

TECHNICAL SKILLS

Languages & Frontend: Java, Python, Go, TypeScript, JavaScript, SQL, Rust; React, Next.js, Tailwind CSS
Backend & Messaging: Spring Boot, Spring Security, Spring Data JPA / Hibernate, Spring AI, Micronaut, FastAPI, REST APIs, GraphQL, microservices, Kafka, JMS, Azure Service Bus
Databases: PostgreSQL, Oracle Database, MySQL, MongoDB, Redis, SQLite, Flyway, query optimization and indexing
Cloud & DevOps: AWS (Amazon EKS, S3), Azure, OpenShift, Docker, Helm, Jenkins, GitHub Actions, GitLab, Maven
Security & Testing: SonarQube, Snyk, CodeQL, Semgrep, OSV-Scanner, JWT, RBAC; JUnit 5, Mockito, pytest, Playwright, k6
AI/LLM: LLM integration, tool calling, MCP servers, multi-agent pipelines, RAG, prompt engineering, Claude Code

PROFESSIONAL EXPERIENCE

Software Engineer — Data Innovation Technologies Jul 2026 – Present
Remote (US shift), Pune, India · client engagements for US-based companies

- Cut query time from ~20s to 4–5s on 14M+ records in a US-based aerospace company's financial accounting application by reworking SQL, indexes, and pagination; also contributed to its ActiveMQ to Azure Service Bus migration.
- Contributed to the Java 11 to Java 21 and javax to jakarta upgrade of a retirement compliance platform, rewriting conflicting shared security classes as Java source, and supported its OpenShift to Amazon EKS migration.
- Owned vulnerability remediation for 6–7 microservices of a global payments company, from scan report to production change request; wrote GitHub Copilot skills to repeat the cycle.
- Designed the approved HLD for a fintech billing reminder framework that coordinates billing, pricing, supplier, and notification services through a facade service; currently implementing it.
- Added Micronaut integration tests to a supplier service, keeping feature code at 80%+ test coverage.

Software Engineer Intern — Data Innovation Technologies Dec 2025 – Jul 2026

- Built the Spring Boot 4.1 (Java 25) backend of DataInn One, an internal HR and payroll system, with maker-checker payroll approval, RBAC, field-level AES-256-GCM encryption, and 71 tests.
- Shipped the company website on Next.js 16 with Playwright and axe-core accessibility tests and Lighthouse CI budgets, keeping old URLs alive through 301 redirects.
- Load-tested an online exam platform at 1,000+ simulated sessions with k6, using Redis caching and PgBouncer pooling.

Software Developer Intern — SimpleAccounts May 2025 – Dec 2025

- Raised dependency scan coverage from 46 to 179 Java components with a CycloneDX SBOM and OSV-Scanner in GitHub Actions; added Semgrep and removed hardcoded registry credentials from 4 Helm charts.
- Moved 13 shared React components onto one design-token system with dark mode, without changing any of the 283 files that use them.

PROJECTS

FinPilot | Python, FastAPI, PostgreSQL, MCP, Next.js Aug 2026 – Sep 2026

- Built an agentic-commerce platform with an MCP server for outside AI agents, a Groq/NVIDIA NIM/OpenRouter/Gemini gateway with automatic fallback, spend caps, and idempotent Razorpay webhooks.

ResumeAgent | Java 21, Spring Boot, Spring AI, PostgreSQL Jan 2026 – Mar 2026

- Designed a 5-agent LLM pipeline with schema-validated JSON output, Spring Retry backoff, per-attempt token logging, and live WebSocket status.

Vault CLI | Go, Argon2id, XChaCha20-Poly1305, GitHub Actions Sep 2026

- Wrote a Git-synced password manager with tamper-evident history and signed multi-platform releases (Sigstore cosign, SBOMs), covered by 9 fuzz targets.

EDUCATION

M.Sc. Computer Science — Vishwakarma College, Savitribai Phule Pune University (SPPU) Jul 2026 – 2028 (pursuing)
B.Sc. Computer Science — Abeda Inamdar Senior College, SPPU · CGPA 8.576 Jul 2023 – May 2026

ACHIEVEMENTS

Razorpay AI Buildathon participant (FinPilot, solo); browser extensions published on Chrome Web Store and Edge Add-ons.