

Ravi Sharma

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SUMMARY

Full-Stack Engineer experienced in building scalable backend systems, AI applications, and backend APIs using Node.js, Python, Spring Boot, and React Native. Skilled in system design, RAG pipelines, vector search, event-driven architectures, and asynchronous processing for scalable web and mobile applications.

EXPERIENCE

Full-Stack Engineer

March 2025 – May 2026

Strengthverse Private Limited

- Delivered 3 production-ready full-stack features (User Settings, Feedback, Sports Articles) on a React Native + Node.js/Express monolithic MVC application, engineered to support 350+ concurrent users on these features.
- Engineered Redis and BullMQ powered backend services with MongoDB and REST APIs, reducing latency by 40–60% while delivering secure asynchronous processing with sub-300 ms response times.
- Contributed to scaling the overall platform's supported user capacity from 50,000 to 800,000+ and concurrent capacity from 100 to 1,000+ users through high-quality feature engineering and production-focused development.

PROJECTS

FishPay - Payment Management System | *Spring Boot, PostgreSQL* [GitHub](#) | [Demo Video](#) | [Demo Apk](#)

- Built a plug-and-play payment infrastructure with 8 core payment management features for businesses by implementing Razorpay webhook-based server-to-server reconciliation with signature verification for secure and consistent payment processing.
- Reduced payment confirmation latency from ~3 seconds to under 750 ms by returning the payment response immediately while asynchronously generating, uploading, and persisting invoice PDFs in the background.
- Containerized the backend using a multi-stage Docker build, 1st compiling the application with Maven and JDK, then packaging only the generated .jar into the runtime image to reduce image size and improve security.

AskYourDoc - Offline AI Document Search Engine | *Python, FastAPI, FAISS* [GitHub](#)

- Built an offline AI document search system with parallel processing and watchdog-based ingestion supporting 5 distinct document formats.
- Designed modular pipelines for PDF, images (OCR), PPTX, TXT, and XLS using dedicated processing functions for each file type, achieving 88% data extraction accuracy through fault-tolerant preprocessing workflows
- Transformed extracted documents into clean, normalized, overlapping semantic chunks, preserving contextual continuity and reducing semantic retrieval latency from 5 seconds to under 1 second.
- Developed local embedding pipeline using transformer models with FAISS for efficient top-k semantic retrieval
- Ensured reliable processing with error handling, duplicate control, and hybrid in-memory plus persistent storage

Stamin - AI Personal Health & Fitness Coaching Platform | *Node.js, Python* [GitHub](#) [Architecture](#)

- Engineered dual-backend architecture using Node.js and FastAPI for scalable AI orchestration and ML inference
- Architected multimodal ingestion pipelines for PDF, DOCX, and image processing using OCR, CLIP, and BLIP
- Implemented preprocessing workflows with validation, metadata extraction, PII masking, and semantic chunking
- Developed asynchronous RAG pipelines using BullMQ, Redis, vector embeddings, Pinecone, and MongoDB
- Designed layered query validation with moderation, intent classification, risk scoring, and routing workflows
- Developed REST APIs for health data ingestion and personalized AI-driven guidance workflows

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL

Frontend: React Native, React.js, Next.js, Tailwind CSS, Redux Toolkit, Axios, Zod, TypeScript, HTML5, CSS

Backend: Spring Boot, Node.js, Express.js, FastAPI, REST APIs, Spring Security, Hibernate, JPA, JWT, bcrypt

Databases: MongoDB, MySQL, PostgreSQL, Pinecone, FAISS

Tools & Platforms: Git/GitHub, Docker, Postman, Meven, Render, Redis, BullMQ, AWS S3, AWS EC2

Concepts: Data Structures & Algorithms, System Design, RAG, Multimodal AI, Event-Driven Architecture

EDUCATION

Maulana Abul Kalam Azad University of Technology (MAKAUT)

Kolkata, India

Bachelor of Computer Applications (BCA)

August 2021 – May 2024

Techno India University

Kolkata, India

Master of Computer Applications (MCA)

August 2024 – June 2026