

RAVI SHARMA

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Education

Maulana Abul Kalam Azad University of Technology (MAKAUT)

- Bachelor of Computer Applications (BCA)
- 2024 Graduate • CGPA - 7.50/10

Kolkata, India
August 2021 - July 2024

Techno India University

- Master of Computer Applications (MCA)
- Expected Post-Graduation: June 2026

Kolkata, India
August 2024 - June 2026

Skills

- Language** Java, JavaScript, Python, SQL
- Frameworks** React Native, React.js, Next.js, Node.js, Spring Boot
- Tools** Git/GitHub, Redux Toolkit, TypeScript, JWT, bcrypt, Postman
- Technologies** Express.js, Docker, REST APIs, MongoDB, MySQL, AWS S3, Render
- Concepts** Data Structures & Algorithms, OOPS, Scalable System Design, Client-Server Architecture
- Soft Skills** Problem Solving, Collaboration, Deliver Results, Scalability Focused, Creativity, Clear Communication

Work experience

Full-Stack Developer - STRENGTHVERSE PRIVATE LIMITED

June 2024 - June 2025

Authentication Layer – Built a secure JWT-based authentication system using React Native, Node.js, Express, and MongoDB.

- Integrated bcrypt password hashing, OTP-based email verification, and password recovery flows.
- Supported email/username login, location-based access, and dual user roles.
- Improved frontend performance by 30% by centralizing state with Redux Toolkit and simplifying navigation using Expo Router.

Modular Settings System – Designed a scalable 3-module settings architecture (Edit Profile, Edit Overview, General Settings).

- Implemented RTK Query for intelligent caching, request deduplication, and reduced network calls by 40%.
- Applied schema-based validation using Zod to prevent invalid data and reduce backend processing by 10%.
- Built backend-driven configurations (roles, sports, metadata) enabling feature expansion without frontend code changes.

Gamified Feedback System – Developed an interactive, gamified feedback flow using React Native and Expo AV.

- Built a configuration-driven question engine (create once, manage anywhere) enabling real-time updates.
- Orchestrated repeatable, stateless submissions with idempotent handling for reliable analytics.
- Optimized rendering and component isolation to ensure smooth animations and consistent cross-device performance.

Projects

Qilin - E-Commerce app

[GitHub Link](#)

- Architected a Node.js monolithic backend using the MVC pattern for a mobile-first application.
- Built a database-driven listing system where a single question schema dynamically powers UI, validation, and AI prompts, reducing redundant code by 40%.
- Architected an AI-assisted image-based listing pipeline with a preview → live publish flow that cut manual listing time by 80%.
- Enabled multi-image uploads, category filtering, and reliable attribute inference even from low-quality inputs.
- Ensured a “change once, update everywhere” workflow, decreasing deployment overhead across frontend, backend, and middleware layers by 25%.

Stamin - Personal Health Intelligence & Fitness Coaching Platform

[GitHub Link](#)

- System Architecture:** Engineered a decoupled dual-backend architecture using Node.js (MVC) for business logic and Python (Flask) for asynchronous ML model serving.
- AI Implementation:** Developed a personalized health coach using Python-based NLP to process user biometrics and activity trends into actionable fitness plans.
- ML Pipeline:** Structured a modular ML repository with custom scripts for preprocessing, tokenization, and inferencing, increasing data throughput by 32% to ensure high-performance output.
- Data Integration:** Designed RESTful APIs to synchronize health data (biometrics, smartwatch activity, medical logs) between the Node.js server and Python inference engine, maintaining sub-200ms data exchange latency.

Interests

- Focused on scalable system design and AI-driven tech.
- Additional Tools- Proficient in Figma for UI/UX prototyping, Lucid Chart for system architecture mapping, and AI-assisted development using Claude/Replit.