

# Ravi Sharma

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## EDUCATION

### Maulana Abul Kalam Azad University of Technology (MAKAUT)

Bachelor of Computer Applications (BCA)

Kolkata, India

August 2021 – July 2024

### Techno India University

Master of Computer Applications (MCA)

Kolkata, India

August 2024 – June 2026

## EXPERIENCE

### Full-Stack Developer

June 2024 – June 2025

*Strengthverse Private Limited*

- 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% using Redux Toolkit and Expo Router
- Designed a scalable modular settings system (Edit Profile, Edit Overview, General Settings)
- Implemented RTK Query caching reducing network calls by 40%
- Applied schema-based validation with Zod to reduce backend processing
- Built backend-driven configurations enabling feature expansion without frontend code changes
- Developed a gamified feedback system using React Native and Expo AV
- Created a configuration-driven question engine enabling real-time updates

## PROJECTS

### Qilin - E-Commerce App | Node.js, Express, MongoDB

- Architected a containerized Node.js backend using MVC pattern for a mobile-first application
- Built a database-driven listing system reducing redundant code by 40%
- Designed AI-assisted image listing pipeline reducing listing time by 80%
- Implemented multi-image uploads, category filtering and attribute inference
- Developed the frontend using React Native with Redux Toolkit for centralized state management and TypeScript for type safety.

### Stamin - Personal Health Intelligence & Fitness Coaching Platform | Node.js, Python, Flask

- Engineered dual-backend architecture with Node.js and Python for ML inference
- Developed AI health coach using NLP to process biometrics and activity trends
- Built modular ML pipeline improving data throughput
- Architected the Node.js backend using the MVC pattern within a monolithic architecture for maintainable and scalable service design
- Containerized backend services using Docker to ensure consistent deployment and environment isolation
- Designed REST APIs synchronizing smartwatch and health data
- Used MongoDB as the primary database with Mongoose ODM for schema modeling and efficient data access

### Skyward - Flight Booking System | Java, Spring Boot, MySQL, Next.js

- Built a full-stack flight booking system with a Next.js frontend and a Spring Boot backend using a monolithic architecture
- Designed the backend following the MVC design pattern to separate controllers, services, and data layers
- Designed RESTful APIs for flight search, seat selection, and booking management
- Implemented secure user authentication with password hashing and session-based login persistence
- Containerized the Spring Boot backend using Docker and integrated it with a MySQL relational database

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python, SQL

**Frameworks:** React Native, React.js, Next.js, Node.js, Spring Boot

**Developer Tools:** Git/GitHub, Redux Toolkit, TypeScript, JWT, bcrypt, Postman

**Technologies:** Express.js, Docker, REST APIs, MongoDB, MySQL, AWS S3, Render

**Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOP), System Design, Client-Server Architecture