

Shourya Upadhyaya

+91 9411594412 | shouryaupadhyaya26@gmail.com | shouryaupadhyaya.com
github.com/ShouryaUpadhyaya | linkedin.com/in/shourya-upadhyaya-998535332 | x.com/Shourya60756648

EDUCATION

VIT Vellore

BTECH - Computer Science and Engineering

Aug. 2024 – May 2028

Vellore, India TamilNadu

EXPERIENCE

Moss X [mossx.in](#) | [GitHub](#)

Apr. 2025 – Oct. 2025

Lead Full-Stack Developer

- Designed and implemented the complete backend of a modular monolithic e-commerce platform using **Node.js**, **Express.js**, **MongoDB**, and **JWT**, building authentication, product, cart, order, payment, and analytics APIs.
- Reduced database read pressure by introducing **Redis caching** for refresh-token session management and featured product queries, improving homepage response latency to under **50 ms**.
- Developed **MongoDB aggregation pipelines** using `$group`, `$match`, `$sum`, `$dateToString`, `$min`, `$max`, `$sample`, and `$project` to power sales analytics, dynamic pricing filters, and personalized product recommendations.
- Integrated **Razorpay** with webhook verification and idempotency protection, successfully processing **20+ customer payments** while preventing duplicate transactions.
- Led a team of **3 frontend/mobile developers**, reviewing pull requests, coordinating backend integration, Dockerizing the application, and deploying production services on **Render**.

Nepbyte Technology

Sept. 2024 – Feb. 2025

Frontend Developer

- Built, maintained production React applications, integrated REST APIs with **Axios**, state managed using **Zustand**
- Improved SEO through lazy loading, code splitting, and semantic HTML, increasing Lighthouse scores by **40%**

PROJECTS

OpenPumTa | [openpumta.com](#) | [GitHub](#)

- Built and deployed a full-stack productivity platform serving **1,500+ lifetime visitors**, with a modular **Express.js + Prisma + PostgreSQL** backend implementing **30+ REST APIs**, **10 database models**, and secure authentication using **Google OAuth**, **JWT**, and **Zod**.
- Designed a scalable backend architecture with feature-based modules, **Redis-backed analytics caching**, and **WebSocket-powered timer synchronization**, reducing database load while enabling real-time cross-device Pomodoro sessions.
- Containerized the application using **Docker Compose** and deployed it on a self-hosted **Linux VPS** behind **Nginx**, integrating **Prometheus** and **Grafana** for production monitoring of response times, active users, error rates, and system health.
- Implemented **AI-powered productivity reports** and daily reviews by analyzing user activity across habits, tasks, and study sessions to generate personalized productivity insights.
- Improved backend reliability through centralized error handling, integration testing, request validation, and production-ready observability across the application stack.

Cook Off 10.0 | Code Editor | [GitHub](#)

- Developed a **Next.js** platform serving **1,000+ users**, sustaining **40% concurrent load** during live rounds with a custom **CodeMirror 6** editor.
- Implemented a **triple-layer persistence** system (Zustand, LocalStorage, MongoDB) for data integrity and secure API handling via **Axios interceptors**.

SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, C++ | **CS Fundamentals:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), System Design

Backend: Node.js, Express.js, Prisma ORM, REST APIs | **Databases & Caching:** PostgreSQL, MongoDB, Redis |

Frontend: React.js, Next.js, Tailwind CSS, Zustand

DevOps & Infrastructure: Docker, Nginx, Git, GitHub, Linux, Prometheus, Grafana, Render