Bal Mukund Sharma

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Summary

Final-year Computer Science student specializing in full-stack development, with a proven ability to design, build, and deploy scalable web applications using Next.js, TypeScript, and Node.js. Eager to apply a strong foundation in software engineering principles and hands-on project experience to a full-time Software Development Engineer (SDE) role.

Education

Bennett University — Greater Noida, UP
B.Tech in Computer Science and Engineering — *Expected May 2026*

St. John's School B.L.W — Varanasi, UP
Class 12 (ISC) & Class 10 (ICSE) — *May 2022 & May 2020*

Experience & Projects

Smart Complaint Box- Full-Stack Complaint Management System — *Live Demo*
Next.js, Supabase, PostgreSQL, Tailwind CSS, Resend

- Engineered a full-stack web application from concept to deployment to streamline complaint submission and management, improving tracking efficiency for administrators.
- Developed a secure admin dashboard with JWT-based authentication, providing a centralized platform for real-time complaint monitoring and resolution across the full software development lifecycle.
- Leveraged Supabase for PostgreSQL database management and file storage, implementing real-time subscriptions that resulted in a 100% reduction in manual page refreshes for new data.
- Utilized TypeScript across the full stack to enforce type safety, improving code maintainability and reducing potential runtime errors by an estimated 20%.
- Integrated the Resend API via server-side REST APIs to automate email notifications, ensuring immediate admin awareness of new user submissions.
- Designed and built a fully responsive, mobile-first UI with shaden/ui and Tailwind CSS, ensuring a seamless user experience across all devices.

City Pulse AI-Powered Event Discovery Platform — *View on GitHub*
Next.js, Node.js, Python, TypeScript, PostgreSQL, Gemini AI, Selenium

- Developed a full-stack event discovery platform in a monorepo architecture for efficient management of the frontend, backend, and scraper components.
- Engineered an on-demand data pipeline where a Node.js API executes a Python script using Selenium to collect live event information from third-party sites.
- Integrated Google Gemini AI into the backend to parse unstructured text into clean JSON, which is then validated and saved to a PostgreSQL database using TypeScript and Prisma.
- Created a dynamic Next.js frontend with Server-Side Rendering (SSR), allowing users to search for cities and trigger the data scraping process directly from the UI.
- Solved critical deployment challenges by debugging type-safety mismatches between local and production environments, reinforcing robust coding and validation practices.

Technical Skills

Languages: Java, JavaScript, TypeScript, SQL, HTML/CSS

Frontend: React, Next.js, Tailwind CSS, shaden/ui, Bootstrap

Backend: Node.js, Express.js, Next.js API Routes

Databases: Supabase, PostgreSQL, MongoDB

Developer Tools: Git, GitHub, Vercel, Postman, VS Code, REST APIs, Coding

Core Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Full-Stack Architecture, Responsive Design

Relevant Coursework

Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, Software Engineering Principles

Certifications

Coursera: Deep Learning, Supervised & Unsupervised ML, Data Structures, Agile Development & Scrum
Other: Software Engineering (Infosys), Sigma 4.0 Web Development + DSA (Apna College)