Vedansh Bhatore

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Summary

Computer Science undergraduate specializing in **full-stack web development** with the **MERN stack** and PostgreSQL. Independently designed, built, and deployed **2 production full-stack applications** end-to-end, from schema design through live deployment, with **RESTful APIs**, JWT authentication and role-based authorization, **LLM API integration**, and unit-tested backend services on Vercel, Render, and Neon. Strong foundation in **Data Structures and Algorithms**, system design, OOP, and DBMS. Seeking a **Software Engineer / Backend Developer** internship.

Education

Indian Institute of Information Technology (IIIT) Nagpur Nagpur, Maharashtra, India
Bachelor of Technology in Computer Science Engineering (Data Science & Analytics) *2023 – 2027*
Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming.

Projects

Library Management System | *React, Node.js, Express, PostgreSQL, Prisma, Tailwind CSS*
Live Demo | GitHub

- **Access control:** Implemented role-based access control across **2 user roles** (Librarian, Student) using **JWT authentication**, **HttpOnly** cookies, **bcrypt** password hashing, and Express middleware request validation.
- **API & business rules:** Designed **25+ RESTful endpoints** across **9 resource domains** with **Zod** validation, backed by a centralized business-rules engine covering **4 policy areas** (loans, renewals, fines, eligibility) and **21 Vitest unit tests**.
- **Rental lifecycle:** Built issue, return, and renewal flows with **atomic Prisma transactions**, relational database design, and a fairness-aware reservation queue.
- **Deployment:** Shipped a production instance across **3 services** (Vercel, Render, Neon PostgreSQL) with a same-origin rewrite proxy for secure cross-origin cookie authentication between frontend and backend.

Hire Mate: AI ATS Resume Analyzer | *React, Node.js, Express, MongoDB, Groq AI*
Live Demo | GitHub

- **AI feedback:** Integrated the **Groq API (Llama 3.3 LLM)** for real-time resume feedback, keyword gap analysis, and job description match scoring.
- **Scoring engine:** Architected an **ATS scoring engine** across **4 weighted dimensions** (keyword density, section detection, action verbs, impact metrics) to produce objective **0–100** scores.
- **Data pipeline:** Assembled server-side PDF extraction with **Multer** and **pdf-parse**, persisting structured resume data to **MongoDB Atlas** with validated, indexed schemas.
- **Security & dashboards:** Secured endpoints with **JWT authentication** and ownership-based authorization, and built **Recharts** dashboards tracking score trends.

Technical Skills

Languages: C, C++, JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3.
Frontend: Next.js, React, Redux, React Router, Tailwind CSS, Recharts, Responsive Web Design.
Backend: Node.js, Express, RESTful API Design, MERN stack, JWT Authentication & Authorization, Zod, LLM API Integration.
Databases: MongoDB, MongoDB Atlas, PostgreSQL, Prisma ORM, Neon, Schema Design, Query Optimization.
Tools & Practices: Git, GitHub, Version Control, Postman, Vitest, Unit Testing, Vercel, Render, Debugging.
Core CS: Data Structures & Algorithms (DSA), System Design, OOP, DBMS, Operating Systems, Computer Networks.

Achievements

- Secured an All India Rank (AIR) of **43,983** in the Joint Entrance Examination (JEE) Mains.
- Solved **250+** Data Structures and Algorithms problems across LeetCode, Codeforces, CodeChef, and takeU-forward, achieving a peak rating of **1532**.

Certifications

- SQL Fundamentals Track — DataCamp.
- SQL for Business Analytics — DataCamp.

Extracurricular Activities

- **Speedcubing:** Proficient in solving 3x3, 5x5, and Megaminx puzzles.
- **Chess:** Achieved a Rapid rating of **1450** on Chess.com.