Vaibhav Baliyan

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Professional Summary

Results-driven Backend Developer with hands-on experience building secure, scalable APIs and full-stack applications using Node.js, Express.js, React, and MongoDB. Proven ability to design role-based authentication systems, optimize database-driven workflows, and deploy production-grade applications. Strong problem-solving foundation with 500+ Data Structures and Algorithms problems solved and consistent performance in competitive programming.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C/C++, Python, SQL
Frontend: React 18, Redux Toolkit, React Router v6, Tailwind CSS, Vite
Backend: Node.js, Express.js, MongoDB, Mongoose ODM, REST APIs
Auth & Security: JWT, bcrypt, RBAC, Helmet.js, express-rate-limit, express-mongo-sanitize, XSS Protection
DevOps & Tools: Git, GitHub, Vercel, Render, MongoDB Atlas, CI/CD Pipelines

Experience

Software Programmer Apprentice — Dec 2024 – Present
Colt Technology Services, Gurugram

- Launched an AI-powered internal learning platform using CrewAI multi-agent systems, reducing manual content creation effort by 60%.
- Automated structured data extraction from PDFs, web links, and text files using Python pipelines, improving processing efficiency by 3×.
- Enhanced backend performance by redesigning data models and tuning MongoDB indexes, reducing API response times by 40%.
- Streamlined research and content generation workflows with role-based AI agents, increasing employee training adoption.
- Engineered frontend components for a financial ledger system, enabling accurate visualization of Rs. 20 Cr+ monthly transactions.
- Resolved 30+ bugs and improved turnaround time by 20%, boosting client satisfaction.
- Designed a bulk-upload dashboard using React.js and Tailwind CSS, lowering support queries by 40%.
- Refactored UI into reusable components, reducing code duplication by 25% and accelerating delivery.

Projects

HireNest — Full-Stack Job Portal (MERN)
[Live Site](#) — [GitHub](#)

- Built a production-grade job portal using MongoDB, Express.js, React 18, Node.js, and Redux Toolkit, supporting employer and job seeker workflows.
- Designed and implemented 25+ RESTful APIs with JWT authentication, role-based access control (RBAC), and bcrypt-based password hashing.
- Implemented scalable resume uploads using Cloudinary and Multer, supporting 100+ PDF uploads with secure access and optimized delivery.
- Built advanced job search with multi-parameter filtering and pagination, achieving sub-200ms query response times through MongoDB indexing.
- Developed an application tracking system with status workflows, duplicate application prevention, and resume snapshotting for data consistency.
- Deployed frontend on Vercel and backend on Render with CI/CD pipelines, maintaining 99.5% uptime and preventing N+1 query issues.

Tech Stack: React 18, Redux Toolkit, Node.js, Express.js, MongoDB (Mongoose), JWT, bcrypt, Multer, Cloudinary, Tailwind CSS, REST APIs, Vercel, Render

Education

B.Tech in Electronics and Communication Engineering — 2020 – 2024
GL Bajaj Institute of Technology & Management

Achievements

- Solved 500+ Data Structures and Algorithms problems across LeetCode, GeeksforGeeks, and CodeStudio.
- Ranked 2812 in LeetCode Weekly Contest 361 (Top 10%).