Aditya Singh

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Education

VIT Bhopal University 📅 **November 2022 – October 2026**
Bachelor of Technology in Computer Science *Sehore, Madhya Pradesh*
CGPA: 8.65

Technical Skills

Languages: Javascript, Python, Java
Technologies/Frameworks: Reactjs, Node.js, Express.js, MongoDB, Redux
Developer Tools: VS Code, Git, GitHub, Postman

Projects

Tomato - A food delivering app | *MongoDB, Express.js, React, Node.js, Stripe* | ⭘ Link   **December 2024**
- Engineered asynchronous Stripe payment workflows within 'Tomato,' slashing checkout completion times, accelerating order processing, and elevating overall user satisfaction by a quantifiable margin.
- Fortified backend security for 'Tomato' app using Node.js and Express.js, which protected all CRUD operations and Stripe payments, leading to zero reported security vulnerabilities post-launch.
- Standardized MongoDB schema designs across three core platform modules (orders, users, transactions), improving data retrieval speeds and reducing data inconsistencies, based on error logs.
- Implemented comprehensive logging and monitoring solutions to proactively detect and resolve system issues, improving uptime and reliability.

Job Search | *MongoDB, Express.js, React, Node.js* | ⭘ Link   **November 2024**
- Created a streamlined job application process through platform design, leading to an increase in completed applications, and made the platform the most user-friendly tool among internal recruiters.
- Spearheaded the development of a job alert notification system, parsing new job postings and delivering personalized messages, which was then adopted organization-wide by recruiters for daily use.
- Enhanced backend systems through strategic connection pooling, which ensured zero downtime during peak hours and improved query speeds, while also boosting application processing capabilities.
- Optimized database indexing and query performance, reducing average response times during peak usage by efficiently handling large volumes of job data.

College Fundraiser App | *MongoDB, Express.js, React, Node.js, Paytm API* | ⭘ Link   **October 2024**
- Delivered a real-time analytics dashboard for the crowdfunding platform, providing campaign organizers with actionable insights on donor patterns and campaign performance.
- Pioneered the integration of Paytm API, enabling acceptance of diverse payment methods, leading to a noticeable upswing in donation participation from student and alumni contributors within six months.
- Launched real-time donation tracking dashboards with MongoDB, Express.js, React, and Node.js, providing campaign organizers the insights to fix the two biggest causes of donation drop-off.
- Revamped backend database schema, leading to a significant reduction in redundant data and noticeable improvement in data retrieval speeds during high-traffic fundraising events, as the most junior member.

Coursework and Achievements

- Enhanced code optimization skills by solving 150+ data structure and algorithm exercises; applied acquired knowledge to identify and resolve bottlenecks in existing code, improving overall performance.
- Led a cross-functional team of 5 members to the top finals in VIT Bhopal Summer of CodeFest competitive hackathon among 200 competing teams.
- Led a team to the final round of the CodeVerse Hackathon, officially organized by Metaversity in collaboration with CITL VIT Bhopal and OSCode, a Bengaluru-based startup.