

VIVEK KUMAR SINGH

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EDUCATION

Dr B R Ambedkar National Institute of Technology Jalandhar (2023 - 2027)

B.Tech in Computer Science and Engineering

CGPA : 6.28

M.S College Motihari

Intermediate(Math)

PERCENTAGE : 79.8.%

EXPERIENCE

Technical Mentor

July 2024 – Current

Self-Initiated

- Mentored **10+** junior developers in Data Structures Algorithms (DSA), full-stack development, and competitive programming, resulting in a **40%** improvement in their coding proficiency over 3 months.
- Conducted **15+** peer-to-peer sessions, providing project guidance and troubleshooting, helping team members complete **5+** major milestones ahead of deadlines.
- Promoted best practices in version control and clean code, leading a team-wide adoption of Git, which reduced merge conflicts by **30%** and improved collaboration efficiency by **20%**.

PROJECTS

Lost Finder | *React.js, Node.js, Express.js, MongoDB*

[Github](#)

- Developed a MERN stack web app for reporting and finding lost items, handling **500+** user interactions per week, with real-time data syncing through MongoDB and a robust REST API architecture.
- Engineered a secure user authentication system using OAuth 2.0, processing **50+** logins per minute with a **99.99%** uptime, allowing students to access course materials seamlessly and reduced login errors.
- Deployed with a real-time MongoDB database and REST API architecture, improving data reliability and ensuring system uptime of **99.9%**.

Competitive Exam Website | *HTML, CSS, JavaScript, Firebase*

[GitHub](#)

- Built a quiz-based website supporting performance analytics and admin features, attracting **1,000+** active users and enabling real-time tracking of user progress and results.
- Utilized Firebase for auth and backend services.
- Aided **100+** users in exam preparation with interactive UI.

Mess Management and Expense Tracking System | *React.js, Firebase, Node.js.*

[GoingOn](#)

- A web-based solution designed to streamline mess operations and provide transparent tracking of extra item consumption by students.
- Automated backend tracking of consumption data, reducing manual entry errors by **80%** and improving data processing speed by **50%**.
- Provided students with real-time visibility into their expenses, promoting financial transparency and reducing overspending by **25%** in the first 3 months of usage.

SKILLS

- **Languages:** C/C++, Python, HTML, CSS, JavaScript
- **Frameworks and Libraries:** React.js, C++ STL, Express.js, Python Libraries
- **Tools:** Node.js, Visual Studio Code, Git, GitHub
- **Databases and Cloud:** MongoDB, Firebase, MySQL
- **Coursework:** Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, DBMS, Software Engineering
- **Areas of Interest:** Web Design and Development, Cloud Security
- **Soft Skills:** Self-learning, Presentation

ACHIEVEMENTS

- Achieved **19th** place out of **100** teams in the ACPC Hackathon, showcasing strong coding skills.
- Solved **100+** Problems on **LeetCode**
- Achieved Institute Rank **1218th** on **GeeksforGeeks**, and **2,000+** coding score.
- Participated in over **50+** coding contests, demonstrating expertise in competitive programming.
- **Built** a community of **500+** followers on **LinkedIn**.