SAFAL KUMAR

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Codeforces

<u> LeetCode</u>

in LinkedIn

⊜ GitHub

Summary

Final-year Information Technology student with a strong foundation in algorithms and systems software. Passionate about enhancing operational efficiency by developing, deploying, and integrating scalable internal business applications. Experienced in building custom full-stack solutions that automate complex workflows and solve critical business problems, with a strong command of C++ and JavaScript.

Projects

RadNow - Real-Time Social Discovery Application (Source Code)

- Technologies: React Native, Redux, Node.js, MongoDB, Java, Socket.IO
- Led a 4-member team in the end-to-end design and development of a cross-platform application, defining the technical architecture and feature roadmap.
- **Developed a custom Java native module** for Android to enable precise 20-meter location tracking, demonstrating the ability to integrate platform-specific code into a larger system.
- Engineered a scalable backend with MongoDB aggregation pipelines, reducing query response times by 40% and ensuring reliable data handling for a growing user base.
- Enhanced application security by implementing JWT authentication and authorization, resulting in a 15-point increase in security score and decreased unauthorized access attempts by 10%.

Campus Recruitment & Workflow Automation Platform (Link) (Source Code)

- Technologies: MERN Stack (React, Node.js, Express, MongoDB), RESTful APIs
- Automated 10+ manual administrative tasks by translating business requirements from 4 stakeholder groups (Students, TPO, Management, Companies) into a centralized platform.
- Engineered secure, role-based workflows for over 4 distinct user roles, implementing multi-level access control to protect sensitive placement data.
- Developed over 25 RESTful API endpoints to manage 5+ core data models (students, jobs, etc.), forming the backbone of the application's business logic.
- Built a real-time notification system and dynamic dashboards, reducing the need for manual status inquiries by an estimated 90% and improving process transparency.

Competitive Programming

- LeetCode: Knight (Peak Rating: 1994) Codeforces: Specialist (Peak Rating: 1548)
- Solved 1100+ problems, developing deep expertise in data structures, algorithms, optimization, and debugging.
- Achieved Global Rank 364 (Top 1%) in LeetCode Biweekly Contest 144.
- Achieved Global Rank 1026 (Top 3%) in Codeforces Round 1022 (Div. 2).

Technical Skills

- Languages: C++, Java, JavaScript (ES6+)
- Backend & APIs: Node.js, Express.js, RESTful APIs, Web Services (Socket.IO)
- Databases: SQL, MongoDB
- Frontend: React, React Native, Redux, HTML, CSS, TailwindCSS
- Developer Tools: Git, GitHub, Postman, JWT, Agile Workflows, Code Review Practices
- Core CS Concepts: Data Structures & Algorithms, Operating Systems, Database Systems, Computer Networks

Education

Harcourt Butler Technical University, Kanpur

• B.Tech in Information Technology, CGPA: 8.6