Raj Kumar

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SKILLS

Languages: C/C++, Python, HTML, CSS, JavaScript, SQL
Frameworks & Libraries: Node.js, Next.js, React.js, Socket.IO, Tailwind CSS, Bootstrap
Databases: PostgreSQL, MySQL, MongoDB
Tools & Platforms: Git, GitHub, VS Code, Linux, Render.com
Concepts: Data Structures & Algorithms, Object-Oriented Programming, REST API, Problem-Solving, Version Control
Soft Skills: Analytical Thinking, Communication, Team Collaboration, Time Management, Adaptability, Quick Learning

WORK EXPERIENCE

Sasken Technologies Ltd   June 2025 - July 2025
Software Intern

- Developed a scalable C++ load balancer using Round Robin and Least Connections algorithms.
- Integrated real-time server health monitoring to isolate/reintegrate unresponsive servers, ensuring high availability.
- Applied Linux OS concepts (memory management, process scheduling, socket programming, IPC) to optimize performance.
- Technologies: C++, Linux, Threads, Socket Programming, IPC, Git

EDUCATION

TECHNO INDIA UNIVERSITY   Aug 2022 - Jun 2026
B.Tech in Computer Science and Engineering   *CGPA: 8.2/10*
Relevant Coursework: Object Oriented Programming, Data Structures & Algorithms, Databases, Operating Systems, Computer Networks, Machine Learning, Advanced Data Structures

PROJECT WORK

- **Splitrr – Expense Sharing App (Splitwise Clone):** [GitHub Link]
  - Built a full-stack expense sharing platform enabling users to add friends, split bills, track balances, and manage group expenses.
  - Designed a responsive, modern UI using Next.js and Tailwind CSS with real-time updates for seamless expense tracking.
  - Integrated authentication, group management, and expense settlement features, ensuring scalability and user-friendly interactions.
- **VibeSync – Real-Time Collaborative Music & Chat App:** [GitHub Link]
  - Developed a real-time chat application with multiple users joining rooms, sending messages, and viewing live updates using Socket.IO.
  - Implemented synchronized YouTube video playback across users for collaborative music watching.
  - Designed responsive UI/UX with scrollable chat box, fixed input, modal search, and footer for polished user experience.
  - Deployed on Render.com for live access, ensuring smooth performance and scalability.
  - Optimized frontend layout with Tailwind CSS and Framer Motion for interactive and appealing UI elements.
- **FileEncryptDecrypt – Commandline File Encryption & Decryption Tool:** [GitHub Link]
  - Developed a C++17 tool to securely encrypt and decrypt files within directories using `<filesystem>` for directory traversal.
  - Built modular architecture separating encryption, file I/O, and process management, with future multithreading support. Automated builds using Makefile.

ACHIEVEMENTS

- Solved **500+ problems** on LeetCode and GFG, focusing on Data Structures and Algorithms.
- Active on GitHub with multiple projects, contributing to C++ and Web Development communities.
- Certifications: Full Stack Web Development (Udemy), Data Structures and Algorithms in C++, SAP S/4HANA Essentials