SIMRAN NADAF

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EDUCATION

Srinivas University Institute of Engineering and Technology   Nov 2022 – Nov 2026
Bachelor of Technology in Computer Science & Engineering   Mangalore
Coursework : Data Structures & Algorithms, Operating Systems, OOP, DBMS, Computer Networks

Morarji Desai Residential Pre – University College   Jun 2020 – Apr 2022
Pre-University Course   Ramanagar

SKILLS

Programming Languages : Java | HTML | CSS | JavaScript
Core CS Concepts : Data Structures | Algorithms | OOP | Operating Systems | DBMS | Complexity Analysis
Frameworks & Libraries : React.js |Node.js | Express.js | TailwindCSS
Tools & Technologies : Git | Linux | MySQL | MongoDB | AWS (basic) | REST APIs | Postman API | Jira | GitHub
Soft Skills : Adaptability | Leadership | Consistency | Fast Learner | Problem-Solving | Communication Skills

EXPERIENCE

CodeLab Systems   May 2025 – July 2025
MERN Stack Intern   Manglore
- Developed full-stack features using React, Node.js, Express, and MongoDB, including REST APIs and dynamic UI components.
- Implemented JWT authentication, optimized database queries, and improved API performance by handling errors and middleware efficiently.
- Collaborated in an agile environment using Git, code reviews, and sprint planning, improving code quality and team workflow.

PROJECTS

Distributed File Sharing System | Java, Socket Programming, Multithreading   May 2025 – Jul 2025
- Built a peer-to-peer distributed file sharing system with socket-based communication for upload, search, and download operations.
- Implemented hashing-based indexing and multithreading to improve file discovery and boost transfer speed by ~30%.

PayPal Integration System | Java, Spring Boot, PayPal REST API, MySQL   Sep 2025 – Dec 2025
- Integrated PayPal REST API in Spring Boot to handle secure payment creation and execution.
- Implemented callback/webhook handling to validate transactions and prevent duplicate payments.
- Stored and managed payment records in MySQL with proper error handling and status tracking.

AI Virtual Assistant | React, Node.js, Express, MongoDB, Gemini AI   Dec 2025
- Built a voice-enabled AI assistant using Web Speech API and Gemini AI to deliver real-time speech-to-text, text-to-speech, and intelligent conversational responses.
- Implemented authentication (JWT + bcrypt), customizable assistant profiles with Cloudinary uploads, and deployed the full MERN application on Render.

CERTIFICATES

- **Database Management Certification -** Concepts of SQL, normalization, indexing, transactions, and database design
- **Secure Coding in Java -** Best practices for secure Java development, input validation, and vulnerability prevention

EXTRA-CURRICULAR ACTIVITIES

- Regular participant on LeetCode , CodeChef , HackerRank, improving problem-solving skills.
- Participated in webinar and bootcamps on MySQL, Java, and AI Tools to expand technical exposure.