Riya Sachdeva

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⚙ github.com/riyasachdeva1

EDUCATION

B.Tech in Computer Science and Engineering   2022–2026 (Exp.)
Vellore Institute of Technology, Bhopal   **CGPA: 8.6**

EXPERIENCE

Full Stack Web Developer Intern   Nov 2024 – Jan 2025
Neurosensum International India Private Limited

- Revamped WordPress website to React platform, **achieving 60% reduction in load time (Google Lighthouse)**.
- Designed admin interface enabling non-technical staff to manage 50+ blog posts and update content
- Demonstrated strong responsibility, attention to detail, and effective communication
- Delivered **scalable backend solutions** with consistent performance and code quality standards.

PROJECTS

MindCare Alliance - Mental Health Platform   Dec 2024 – Jan 2025
Java, JavaScript, React.js, Node.js, HTML, CSS

- Designed and developed **responsive mental health platform** serving rural and urban communities with integrated helpline services.
- Implemented **JavaScript-based interactive features** and accessibility standards for enhanced user engagement.

Vista Pharmaceutical   Aug 2024 – Oct 2024
Java, React.js, Firebase (Firestore, Auth, Hosting), JavaScript, Tailwind CSS, Git, Node.js

- Built a React + Firebase web app for pharmacy inventory and order management, **with real-time synchronization and secure user auth.**
- Deployed on Firebase Hosting with **99% uptime** and **integrated role-based admin control.**

Cryptography and Network Coding - Research Implementation   Jun 2024 – Aug 2024
Python, Cryptography, AES, RSA, Network Protocols, Algorithm Optimization

- Authored research paper on secure data transmission integrating **cryptography with network coding algorithms**.
- Developed and implemented **linear network coding algorithms** improving packet transmission efficiency by **25%**.
- Applied **AES and RSA encryption** with homomorphic signatures for enhanced network security.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, SQL, HTML, CSS
- **Frameworks & Libraries:** React.js, Node.js, RESTful APIs
- **Databases & Tools:** MySQL, Git, GitHub, MS Excel, PowerBI, Tableau
- **Core Subjects:** Computer Networks, Object Oriented Programming, Operating Systems, Data Structures, Algorithms

ACHIEVEMENTS

- **Adobe India Hackathon** — Advanced to **Round 2** with Smart PDF Reader implementing **AI-driven document processing** and intelligent format conversion.
- **BlockDAG Hackathon 2025 (Jul 2025)** — Advanced to **Round 2** with **Zentry Wallet**, a decentralized wallet system addressing **scalability and privacy**.