Mohit Viswkarma

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Education

Indian Institute of Information Technology, Allahabad (IIITA) 2024 – 2026
M.Tech in Network and Security *CGPA: 7.54/10*

University Institute of Technology, RGPV, Bhopal 2019 – 2023
B. Tech in Information Technology *CGPA: 6.92/10*

Shubham Convent Higher Secondary School, Nasrullaganj 2016 – 2018
Senior Secondary (Science) *Percentage: 87%*

Relevant Coursework

- Data Structures & Algorithms • Operating Systems • DBMS • OOPS • Computer Networks • Cryptography

Technical Skills

Programming Languages: C++, JavaScript, SQL, Bash Scripting(familiar)

Backend Technologies: Node.js, Express.js, MongoDB, REST APIs

Frontend Technologies: React.js, WebRTC, WebAssembly (WASM)

Libraries & Tools: Socket.IO, PBC, GMP, Git, GitHub,Postman, Docker

Projects

IntelliVibe - AI-Powered Hiring Platform ⭘ | ⬈
- Developed a comprehensive, AI-powered hiring platform to streamline the recruitment lifecycle from job posting and application tracking to conducting video interviews and generating detailed performance reports
- Engineered a dynamic and responsive frontend using **React** and **Tailwind CSS**, featuring protected routes for secure access and distinct, feature-rich dashboards for both employers and candidates
- Implemented a low-latency, real-time video interview module by leveraging **WebRTC** for peer-to-peer media streams and **Socket.IO** for robust signaling, ensuring a seamless interactive experience
- Constructed a scalable backend using the **MERN** stack (**MongoDB, Express.js, Node.js**) and integrated AI models to power features like automated resume screening and intelligent interview question generation

SecureDocs ⭘ | ⬈
- Built a full-stack secure document sharing platform utilizing Identity-Based Encryption (**IBE**) to provide robust, on-premise data security with 256-bit end-to-end encryption for confidential file transfers
- Developed the core cryptographic engine in **C++** using Pairing-Based Cryptography (**PBC**) and **GMP** libraries, compiling it to **WebAssembly (WASM)** for efficient client-side encryption directly in the browser
- Architected a secure, decoupled backend infrastructure using **Node.js**, which communicates with a dedicated Key Distribution Center (**KDC**) to manage and distribute cryptographic keys securely to users

Work Experience

Software Engineer Intern — Cixcent Technologies Hyderabad, India — May 2023 – Aug 2023

- Integrated **20+ RESTful APIs** to accelerate data retrieval by **30%** for key user dashboards, proficiently handling **large datasets**.
- Created **5+ reusable React/Javascript components**, enhancing UX and improving application
- Optimized data handling and refactored API calls with Axios, reducing application load times by **25%** and addressing **performance issues**.
- Ensured **bug-free delivery** by rigorously testing **20+ API endpoints** and resolving **critical bugs** pre-deployment, showcasing hands-on **debugging applications**.

Achievements

- Solved **600+** DSA problems on platforms including LeetCode, GeeksForGeeks, and Codeforces.
- Scored in the **97.19 percentile** on the GATE 2024 (CS/IT) exam among 123,967 candidates, achieving a GATE score of 558.