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%*

Work Experience

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

- Integrated **10+ RESTful APIs** to accelerate data retrieval by **30%** for key user dashboards.
- Engineered **5+ reusable React/TypeScript components**, enhancing UX for a customer analytics module.
- Reduced application load times by **25%** by optimizing data handling and refactoring API calls to use Axios with caching.
- Ensured **99% bug-free delivery** by rigorously testing **20+ API endpoints** and resolving **15+ critical bugs** pre-deployment.

Projects

IntelliVibe - AI-Powered Hiring Platform Link to GitHub

- Engineered a full-stack MERN application to automate the hiring pipeline using multiple AI services.
- Architected a real-time, conversational AI video interview feature using **WebSockets**, **Deepgram** for live transcription, and **Google Gemini** for dynamic, context-aware question generation.
- Developed an AI-powered resume screening engine to automatically parse, score, and match candidates against job descriptions.
- **Tech Stack:** React, Node.js, Express, MongoDB, Google Gemini, Deepgram, Socket.IO, JWT.

SecureDocs Link

- Engineered a full-stack secure document sharing platform using Identity-Based Encryption **(IBE)**, providing end-to-end, 256-bit encryption to protect files against unauthorized access.
- Developed the core crypto-engine in C **(PBC, GMP)**, compiling to WebAssembly (WASM) to achieve a 40% smaller payload and execute client-side encryption up to 20x faster than pure JavaScript equivalents.
- Architected a decoupled backend with Node.js, including a dedicated Key Distribution Center **(KDC)** that reduced key generation latency by 30% and centralized security operations.

Secure Message Transmission Protocol using RSA and AES

- Developed a secure communication protocol using RSA for key exchange/signatures and AES-256 for encryption.
- Implemented key generation, digital signature, encryption/decryption, and signature verification using Crypto++.
- Project Link: GitHub

Technical Skills

Languages: C/C++, Java, JavaScript, TypeScript, HTML/CSS

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

Developer Tools: Git, GitHub, Postman, Docker

Relevant Coursework

• Data Structures & Algorithms • Operating Systems • DBMS • OOPS • Computer Networks • Introduction to Cryptography • Network Security

Achievements

- Solved **400+** 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.