Jose Rohit M

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B.Tech, Computer Science and Engineering - Cyber Security

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GitHub: github.com/joserohit264/Projects

Summary

Cyber Security engineering student with strong fundamentals in networking, secure software development, blockchain, and distributed systems. Experienced in building secure applications, PQC-based protocols, and IAM integrations. Currently upskilling in Security+, Wazuh SIEM, and OKTA Identity & Access Management. Strong problem-solving ability with hands-on experience designing secure, reliable system architectures.

Skills

Programming Languages: Python, C++, Java, Solidity
Areas of Interest: Network Security, Identity & Access Management (IAM), Secure Software Development, Blockchain
Tools & Technologies: Wireshark, Nmap, Hashcat, Linux, Docker, Hyperledger, Nessus (Basic), AWS (Basic), Remix IDE, Tesseract OCR
Domain Knowledge: Network Protocols, Threat Modelling, Cryptography, Encryption Techniques, Linux System Hardening
Identity & Access Management (IAM): Identity lifecycle, Access provisioning & de-provisioning, RBAC/ABAC, MFA/SSO, Zero Trust, IAM strategy assessment, Platform integration

Certifications

Networking Basics: Introduction to Networking – CISCO Networking Academy
Network Security: Palo Alto Networks Security Training
Cybersecurity: Cyber Crime Intervention Officer (ISAC)
Identity & Access Management: Cybersecurity Analyst IAM Job Simulation – Forage (2025)

Currently Learning

CompTIA Security+ (SY0-701) – In Progress
Wazuh SIEM & Endpoint Security – In Progress
OKTA Identity & Access Management – In Progress
Blue Team Junior Analyst – In Progress

Projects

- **Q-SFTP (Final Year Project)** Designed a Quantum-Safe Secure File Transfer Protocol using Post-Quantum Cryptography. Implemented a PQC handshake with Kyber512 (KEM) and Dilithium2 (digital signatures) for mutual client–server authentication. Built an AES-256-GCM encrypted transfer pipeline supporting text, images, PDFs, and binaries over TCP/IP. Added certificate authority tooling for Dilithium-based certificates and implemented authentication-tag

verification. Achieved cross-platform support (Windows, Linux, WSL) with a modular architecture for scalability.
GitHub: github.com/joserohit264/Q_SFTP

- **Elliptic Curve Cryptography (Sep 2023 – Nov 2023)** Built a web-based ECC secure communication system using Flask for real-time encrypted messaging. Implemented key generation, encryption, and decryption workflows to demonstrate lightweight, high-security cryptography.
- **Automatic License Plate Recognition (May 2024 – Jul 2024)** Developed an ALPR system using Python, OpenCV, TensorFlow, and Tesseract OCR for license plate detection and recognition, featuring preprocessing enhancements and ML-based candidate filtering.
- **Electronic Voting System Using Enterprise Blockchain (Jun 2025 – Present)** Built a transparent and tamper-proof voting system using Ethereum smart contracts on Sepolia. Implemented voter registration, vote casting, and automated tallying with immutable logs.
- **Secure Password Manager** Created an offline-first Password Manager using Rust-based WebAssembly, AES-256-GCM encryption, and Argon2id key derivation within a zero-knowledge architecture. Designed a cross-platform web UI with a sandboxed WASM crypto engine ensuring fast and secure client-side encryption.
GitHub: github.com/joserohit264/Secure_Password_Manager
- **Homomorphic Medical Analytics** Built a privacy-preserving medical analytics system using Fully Homomorphic Encryption (FHE). Implemented encrypted operations (sum, average, risk scores) using TenSEAL (CKKS). Developed FastAPI server, Streamlit client, secure key exchange, and Dockerized deployments for automated cloud-ready testing.
GitHub: github.com/joserohit264/homomorphic-medical-analytics

Education

- **ASE, Coimbatore (2026)** – B.Tech in Computer Science and Engineering - Cyber Security CGPA: 8.14/10
- **Nalanda International Public School (2022)** – Class XII (CBSE), MPC – 84%
- **Sri Vijay Vidyalaya (2020)** – Class X (State Board) – 98%

Soft Skills

Collaboration, Problem Solving, Time Management

Languages

English — Professional Working Proficiency
Tamil — Fundamental Proficiency