

# Faazil Mirza Shaikh

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GitHub: <https://github.com/Drago1314>

## Summary

Computer Science student specialising in Cybersecurity, IoT, and Blockchain Technology. Hands-on experience in ethical hacking, smart contract development, and secure application design. Proven leadership as NSS General Secretary and Joint Head across multiple college committees. Seeking to leverage technical expertise and problem-solving skills in a challenging internship or entry-level role.

## Education

### **Bachelor of Engineering in Computer Science (Cybersecurity, IoT with Blockchain Technology)**

M.H. Saboo Siddik College of Engineering

Mumbai Central, Maharashtra | Expected Year of Completion: 2027

Relevant Coursework: Cryptography and Network Security, Ethical Hacking and Digital Forensics, IoT Systems, Blockchain Technology, Web X.0

## Experience

### **Finance & Accounting Intern - Zaad Finance & Law Consultants** | Jun 2025 - Nov 2025

- Assisted a Chartered Accountant in managing client financial records, preparing documentation, and handling compliance-related administrative tasks.
- Coordinated society-level administration correspondence and assisted in drafting formal letters for regulatory submissions.

### **Assistant Medical Writer - S3 Global Solutions** | Jun 2023 - Aug 2023

- Assisted in drafting and editing medical and technical documentation, ensuring accuracy, clarity, and compliance with industry writing standards.
- Conducted research and summarised clinical findings to support content development for healthcare-related publications.

## Skills

**Technical:** Nmap, Metasploit, Wireshark, Penetration Testing, Network Security, Python, Java, JavaScript, HTML/CSS, SQL, Solidity, Web3.js, Blockchain Development, Smart Contracts, IoT (MQTT, ESP32), Cryptographic Algorithms (AES, RSA, SHA-256), Technical Writing.

**Tools:** Visual Studio Code, Git/GitHub, Linux Distributions (Kali Linux), Android Studio, IntelliJ IDEA, Spyder IDE.

**Languages Spoken:** English, Hindi, Urdu, Marathi, Arabic.

**Soft Skills:** Problem-Solving, Communication, Team Collaboration, Project Management.

## Projects

### 1. Network Vulnerability Scanner | Python, Scapy, Nmap, Tkinter

- Built a Python-based network scanner using Scapy and Nmap to detect open ports, active hosts, and potential vulnerabilities on a local network.
- Mapped scan results against OWASP Top 10 attack vectors and generated automated vulnerability reports with risk severity ratings.
- Developed a lightweight GUI dashboard using Tkinter to visualise scan results in real time.

### 2. ChainKYC - Blockchain Verification System | Solidity, Ethereum, Web3.js, React

- Developed a decentralized KYC system on Ethereum, utilizing document hashing for secure, on-chain identity verification.
- Integrated IPFS for decentralized document storage and Web3.js for seamless interaction between Solidity smart contracts and the React frontend.
- Implemented robust access control and encryption logic in Solidity to ensure data privacy and prevent unauthorized identity tampering.

### 3. CryptoFirmware Analyser | Python, Machine Learning, Scikit-learn, Streamlit

- Built an AI-driven analyser for detecting cryptographic primitives in firmware binaries using machine learning models.
- Developed an interactive Streamlit dashboard for real-time visualization of entropy heatmaps, binary comparisons, and security scores.

### 4. SecureGate | Python, FastAPI, OpenCV, React, AI/ML

- Developed an AI-powered visitor management system utilising facial recognition and liveness detection to prevent spoofing attacks.
- Implemented a secure FastAPI backend and a responsive dashboard for monitoring entry logs and authentication status in real time.

## Certifications

- **Ethical Hacker** - Cisco Networking Academy (May 2025)
- **Introduction to Cybersecurity** - Cisco Networking Academy (May 2025)
- **Walmart Advanced Software Engineering Job Simulation** - Walmart USA (Jun 2025)
- **Python for Data Analysis: Pandas & NumPy** - Coursera Project Network (Apr 2025)
- **Build and Secure Networks in Google Cloud** - Google (Sep 2023)
- **Google Cloud Computing Fundamentals** - Google (Sep 2023)

## Achievements

- **Smart India Hackathon 2025 (Team: VeloCity)** - Developed an AI + IoT-based Smart Traffic Management System (PS-25050) with real-time signal adaptation using image processing; built on Python/Django, React, and MongoDB.
- **Smart India Hackathon 2025 (Team: Coastal Vision)** - Built GrainScan, an AI-powered beach sand grain size mapping system (PS-25037) using CNN, Flutter, OpenCV, and cloud-based geo-tagged image analysis.
- **Smart India Hackathon - NSS-to-Social-Venture Pathway** - Proposed a structured framework leveraging IoT, Blockchain, and SROI metrics to convert NSS volunteer projects into scalable social enterprises.
- **General Secretary, NSS** - M.H. Saboo Siddik College of Engineering; led community outreach programs, coordinated events with 100+ student volunteers.
- **Joint Head, Multiple College Technical Committees (IEEE, CSI, ISTE)** - Managed cross-functional student teams for college-level technical and cultural events.

## Interests

- Football | History and World Affairs | Language Learning (Spanish and German - in progress)