Shruthi Poosa

Hyderabad, India

shruthipoosa0404@gmail.com — +91 8019981821

linkedin.com/in/shruthi-poosa — github.com/Shruthipoosa04 — shruthipoosa.vercel.app

Professional Summary

Built and deployed AI models, cybersecurity tools, and web applications across 15+ projects. Seeking Software Engineer opportunities to deliver secure and innovative solutions.

Work Experience

Summer Research Intern – IARE   May 2025 – July 2025
Hyderabad, India

- Built the **ShadowTrace Digital Footprint Analyzer** to track and analyze digital footprints securely.
- Applied **Python scripting, data analysis, and cybersecurity principles** to detect and evaluate digital risks.
- Documented and presented findings, improving understanding of threat intelligence and privacy tracking.

Cybersecurity Intern – ShadowFox   April 2025 – May 2025
Remote

- Implemented **cybersecurity tools** for threat detection, vulnerability assessment, and system monitoring.
- Conducted security analysis projects, identifying potential risks and suggesting mitigation strategies.
- Gained hands-on experience in **incident handling, network security, and access controls**.

Full-Stack Development Intern – Ignite   May 2024
Hyderabad, India

- Learned and applied web development concepts using **HTML, CSS, JavaScript, React, Node.js**.
- Developed interactive web features and implemented **frontend-backend integration**.
- Collaborated with team members to build functional web modules for real-world applications.

Projects

S.A.N.C.T.U.M   August 2025
Skills: Python, Ultrasonic Modulation, Cybersecurity, Embedded Systems

- Designed a system enabling one-way secure communication with air-gapped military defense devices via ultrasonic signals, reducing reliance on USB-based transfers.
- Built an offline chatbot interface accessible only after dual biometric authentication, ensuring restricted and controlled system access.

Pixel Forensics - Deepfake Image Detection   April 2025
Skills: Python, TensorFlow, OpenCV, Scikit-Learn

- Trained a machine learning model on diverse datasets to detect AI-generated/deepfake images with improved accuracy.

TwinTrap! - Evil Twin Attack Detection   Feb 2025
Skills: NodeMCU, Web Development, Networking, IoT Security

- Built a web-based platform integrated with NodeMCU to detect Evil Twin Wi-Fi attacks, enhancing wireless security awareness.

Education

Institute of Aeronautical Engineering
B.Tech in Computer Science and Engineering (Cyber Security)
Sep 2023 – May 2027 (expected)
GPA: 8.62 (Till III Sem)

Achievements

- Selected for MSME Ideathon 5.0 with project **S.A.N.C.T.U.M**
- Served as an active IEEE Student Member – CIS (Computational Intelligence Society) and WIE (Women in Engineering) Chapters

Skills

Languages: C, Java, Python

Frontend: HTML, Tailwind CSS, JavaScript, MERN Stack

Backend: Flask, REST APIs, MongoDB, MySQL, Docker

Frameworks: FastAPI, TensorFlow, Sci-Kit Learn

Security: CORS, Authentication & Authorization, Logging & Monitoring, Network Security, Data Privacy & Integrity

Certifications

- Cybersecurity Threat Vectors and Mitigation (Microsoft)
- CS50x: Introduction to Computer Science (Harvard)
- Problem Solving Intermediate (HackerRank)
- Networking Basics (Cisco Networking Academy)
- Introduction to CyberSecurity (Cisco)

Research & Innovation

- **S.A.N.C.T.U.M:** Secure air-gapped data transmission using ultrasonic modulation – selected for **MSME Ideathon 5.0**.
- **ShadowTrace:** Privacy-focused Digital Footprint Analyzer revealing personal data exposure on social media to prevent reconnaissance attacks.