

VISHNU PRASANTH A

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Objective

Aspiring Cybersecurity Engineer & Software Developer with hands-on experience in full-stack development, network security, and IoT-based security tools. Proven ability to lead and execute technical projects, including embedded penetration testing tools and secure communication systems. Strong foundation in ethical hacking, threat modeling, and machine learning for anomaly detection. Recognized nationally with 1st place in TECHFINIX'23. Passionate about building secure, scalable systems that solve real-world problems.

EDUCATION

- B.Tech. Agricultural Engineering - CGPA - 7.96 2022 - 2026
Rathinam Technical Campus, Coimbatore.
- HSC Bio-Maths, Bishop Ubagaraswamy Hr. Sec.School, Tiruppur 2020 - 2021
- SSLC – Bishop Ubagaraswamy Hr. Sec.School, Tiruppur 2018 - 2019

EXPERIENCE

NanoThreads, AICRAISE

Technical Lead-Intern | IoT Development, Machine Learning, API Design, and Cybersecurity 08/2024 - 09/2024 Coimbatore, India

- A technology-driven startup focused on developing IoT-based solutions and machine learning algorithms for the textile industry.
- Spearheaded the design and development of an IoT-based device for fabric identification, improving classification accuracy by 90% using machine learning algorithms.

Technical Skills

- Networking, Java, Python

Cybersecurity Skills

- Penetration Testing, Digital Forensics, Reverse Engineering, Cybersecurity Analysis

IoT & Embedded Systems

- Internet of Things (IoT), API Development, Agile

Machine Learning & Data Skills

- TensorFlow Lite, ML module development, Neural Networks

Tools & Technologies

- Kali Linux, Nmap, OWASP ZAP, Sleuth, Tableau, PowerBi, MATLAB, Nikto,

Soft Skills

- Leadership, Mentoring and Team Collaboration.
- Public Speaking and Technical Presentation.

PROJECTS

Handloom and Power loom Fabric Identifier

- Developed an IoT-based fabric identification system with 90% classification accuracy and real-time monitoring capabilities. Implemented robust security protocols to safeguard data integrity.
- Tech Stack:** Python, TensorFlow Lite, Raspberry Pi, OpenCV, SSD1306 OLED, SMBus2, Adafruit SSD1306, I2C, Linux

VAJRA2025 – Autonomous Rover for Agricultural Surveillance

- Led the development of VAJRA2025, an autonomous software-driven rover for smart agricultural monitoring and precision farming, enhancing data processing and analysis through backend integration. Utilized edge computing with TensorFlow Lite and Raspberry Pi, achieving a 95% improvement in monitoring accuracy.
- Tech Stack:** Python, TensorFlow Lite, Raspberry Pi, OpenCV, JavaScript, Firebase, Robotics, Linux

Automated VAPT Report Generator – Kali Linux Network Lab

- Designed an automated vulnerability scanning and reporting tool in a virtual lab using Kali Linux and Metasploitable2; performed real-time exploitation of FTP, HTTP, and SMB services, generating structured security audit reports.
- **Tech Stack:** Python, Bash, Kali Linux, Nmap, Nikto, Enum4linux, Metasploit, VirtualBox

GC-GameChanger WiFi Pentest Toolkit – ESP32 Embedded Pentesting Device

- Engineered a standalone Wi-Fi penetration testing toolkit using the ESP32 platform with dual-button interface and OLED UI; features include Wi-Fi scanning, automated network connection, deauthentication attacks, fake AP creation, BLE control, packet sniffing, captive portal, and local web dashboard.
- **Tech Stack:** C++, Arduino Framework, PlatformIO, ESP32, SSD1306 OLED, SD Card (SPI), BLE, Async WebServer

CERTIFICATION

- **Coursera Certified - IBM Cybersecurity Analyst**
Learned to detect threats, manage incidents, and apply real-world cybersecurity practices, enhancing my ability to secure systems and networks. IBM Digital Visualization and Dashboards
- **Coursera Certified -Ethical Hacking Essentials (EHE)**
Acquired foundational skills in ethical hacking, including vulnerability assessment and basic exploitation techniques for penetration testing.
- **Coursera Certified -Digital Forensics Essentials (DFE)**
Learned digital evidence handling, system investigation, and forensic analysis to support incident response and legal cybersecurity cases.
- **Udemy Certified - Master Reverse Engineering**
Learned to analyse compiled code, identify vulnerabilities, and understand software behaviour -key for cybersecurity and secure development.
- **Udemy Certified - Dart & Flutter Development Course**
Built cross-platform mobile apps with Flutter and Dart, enhancing my frontend development skills with real-time UI and API integration.
- **Udemy Certified - Master Android Application**
Developed native Android apps using Java/Kotlin with full integration of databases and APIs, reinforcing mobile development expertise.
- **EC-Council Certified – SQL Injection Attacks**
Completed a focused course on identifying, exploiting, and mitigating SQL injection vulnerabilities, enhancing practical knowledge of web application security testing.
- **Forage Virtual Experience – Tata Cybersecurity Analyst (TCS)**
Completed a virtual job simulation on Identity and Access Management (IAM), gaining hands-on experience in cybersecurity strategy, access control, and risk mitigation.

LANGUAGES

- Tamil (Native)
- English (Proficient)

KEY ACHIEVEMENTS

- 1st Prize - Paper Presentation competition at TECHFINIX'23.
- Worked in GUVI's Frontend Coding Championship
- Competed in SaWiT.AI Challenge – Developed a Resume Assistance Generator app using Python.