JEYTHA SAHANA VENKATESH BABU

Security Engineer

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CORE COMPETENCIES

Machine Learning | SDLC | OS & Network Protocols | Incident Response | Threat Intelligence | Vulnerability Assessment | Risk & Compliance | Cryptography | Ethical Hacking | Endpoint Security | Cloud Security & Virtualization | Control Systems | Intrusion Detection/Prevention | Ethical Hacking | Honeypots

EDUCATION

PACE UNIVERSITY (Scholarship)

New York, NY May 2026

MASTER OF SCIENCE (MS) IN CYBERSECURITY | GPA: 3.9/4.0 ANNA UNIVERSITY - MADRAS INSTITUTE OF TECHNOLOGY

Chennai, India

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE | GPA: 7.8/10

May 2023

SKILLS

Software: C++ | RStudio | Python | PowerShell | Bash | MS Office 365 Operating Systems: Windows | Ubuntu | Kali | Chrome OS | Mac OS

Cybersecurity Tools: Firewall | SIEM (Splunk) | IDS/IPS | Honeypot (Cowrie) | Encryption | Nessus | Nmap | Metasploit |

Wireshark | OWASP ZAP | Snort | Tcpdump | Apache | Docker

Network Protocols: TCP/IP/UDP | WLAN LAN | FTP/SMTP/ | SSH | Telnet | HTTP/HTTPS | DNS

ICS Protocols: Modbus | Profibus | Ethernet | HART | SCADA | DNP3

Frameworks: ISO27001/IEC27002/IEC62443 | NIST-800/NIST-CSF | CIS Controls | CIA | PCI | DSS | GDPR | MITRE ATT&CK |

STRIDE Analysis | NERC CIP | IEC | Purdue Model

Certifications: CISA - Industrial Control System Cybersecurity (300) Training (1.4 CEUs) | ICS 100 - Introduction to Incident

Command Systems - FEMA IS-100.c (2024) | Cybersecurity Professional Certification – Google (2024)

PROFESSIONAL EXPERIENCE

Google

New York, NY

Security Consultant Intern

May 2025 - Present

Project 1: ICS/OT Cybersecurity Consulting & Expansion

- Architected and led content development for advanced ICS/OT cybersecurity, expanding global consulting services
 across GRC, secure cloud integration (NERC CIP), and modern SecOps (threat detection, incident response, SOC
 integration). Gained expertise in SCADA, HMI, PLC systems, industrial protocols (Modbus, DNP3, EtherNet/IP,
 Profinet, OPC), and the Purdue Model.
- Conducted hands-on ICS/OT Healthcheck assessments, analyzing firewall rules & ACLs to identify vulnerabilities and provide actionable recommendations for enhanced client perimeter security and operational resilience.
- Contributed to white papers on secure **OT cloud adoption (Google Cloud) and Zero Trust architectures** for industrial transformation.

Project 2: Automated Cybersecurity Assessment & Reporting Platform

- Key initiation team member for a Python/Tkinter GUI platform automating cybersecurity assessments via PowerShell/Bash/Mandiant C2C and JSON processing.
- **Centralized findings and automated historical data curation**, significantly improving team efficiency and consistency in vulnerability management.

Amazon

Chennai, India

Machine Learning Data Associate

May 2023 – Jan 2024

 Conducted Exploratory Data Analysis, improving operational data integrity by 90% and efficiency by 10% through collaboration on large datasets.

Ensured compliance with **SPDI, GDPR, CCPA, and DPDPA** while enhancing data accuracy using new extraction methods for classified datasets.

ACADEMIC PROJECTS

OT Pentest Simulation July 2025

• Performed an **OT penetration test simulation** on a virtual **HVAC system**, utilizing **Nmap and Modbus** polling tools to **exploit vulnerabilities** and manipulate **industrial processes**.

Replication and Analysis of the Mitnick Attack: TCP Session Hijacking in a Controlled Environment

March 2025

Executed a case study replicating the Mitnick Attack, a TCP session hijacking technique, in a restricted lab
environment. Analyzed SYN flooding, TCP sequence number prediction, and spoofing-based backdoor implantation,
providing security recommendations to mitigate similar network vulnerabilities.

Penetration Testing a Vulnerable Web Application Using OWASP Juice Shop

March 2025

• Set up and tested **OWASP Juice Shop** on **SEED UBUNTU** using **Docker**, identified vulnerabilities, and confirmed open port **3000** via Nmap with 100% successful deployment and scan.

Network security and Defense for a conceptualized company

Apr 2025

Designed and implemented a segmented network architecture for an e-commerce company with DMZ and internal
zones; deployed Apache server, configured firewall rules, and enabled secure VPN access.
 Integrated Snort and Splunk for intrusion detection and centralized SIEM-based monitoring across the network.

Network Scanner Project Dec 2024

• Developed a **Python-based network scanner with Tkinter GUI, detecting 100+ open port**s, identifying services, and **improving scan time by 30%** through optimization and responsive UI.

Cybersecurity Advisory Project

Dec 2024

Advised cybersecurity strategies for a conceptualized global e-commerce firm on federal compliance, and
international expansion. Delivered recommendations, Evaluated NIST CSF 2.0, ISO 27001, PCI DSS; designed IAM
lifecycle, entitlement review, MFA, SSO, adaptive auth; implemented Zero Trust (least privilege, continuous
verification, segmentation); defined RBAC for cloud security.

EXPERIENTIAL LEARNING

VoteTech: Revolutionizing Democracy – Modernizing Voting with TCS (3rd place)

December 2024

 Designed a Secure Digital Voting System with data protection, UI security (screen inactivity timeout), and a demilitarised zone, presenting it to TCS Cloud Architects & AI Directors.