

Vemula Sai Kumar

(551) 235-2122 | [LinkedIn](#) | saiikumarvemula.us@gmail.com

<https://svemula17.github.io/>

Profile Summary

Cybersecurity graduate student pursuing an M.S. in Cybersecurity with hands-on academic and project experience in vulnerability assessment, security monitoring, and risk analysis. Familiar with enterprise security operations, threat intelligence fundamentals, and cybersecurity automation basics. Strong foundation in Windows/Linux systems, networking, SIEM concepts, and OWASP Top 10. Self-motivated, detail-oriented, and eager to learn while contributing to the protection of critical energy infrastructure.

Education

Yeshiva University, Katz School of Science and Health

New York, NY

Master of Science in Cybersecurity

May 2026

Overall GPA: 3.9

CMR College of Engineering and Technology

Hyderabad, India

Bachelor of Technology.

Sep 2021

Overall GPA: 3.9

Skills

- **Cyber Security & Risk Management:** Vulnerability Assessment, Risk Analysis, Security Controls (Foundational), Incident Awareness, Compliance Basics
- **Security Tools & Monitoring:** Wireshark, Splunk, Nessus, DVWA, Network Logs, Firewalls, VPNs
- **Threat Monitoring & Intelligence:** SIEM Fundamentals (Splunk), Log Analysis, IDS/IPS Concepts, Threat Intelligence Basics, Wireshark
- **Systems & Networking:** Linux, Windows, TCP/IP, DNS, Network Architecture Basics
- **Automation & Scripting:** Python (basic automation), Bash, GitHub (fundamentals)
- **Tools & Documentation:** Microsoft Excel, Word, PowerPoint, SharePoint, Office 365, Adobe Acrobat
- **Soft Skills:** Project Management, Critical Thinking, Analytical Skills, Communication, Attention to Detail, Initiative-Driven, Curiosity

Certifications

- **CompTIA Security +**
- **Google Cybersecurity Professional Certificate (Coursera):** Foundations of Cybersecurity, Play It Safe: Manage Security Risks, Connect and Protect: Networks and Network Security, Tools of the Trade: Linux and SQL, Assets, Threats, and Vulnerabilities and Sound the Alarm: Detection and Response, Automate Cybersecurity Tasks with Python, Put It to Work: Prepare for Cybersecurity Jobs
- Certified in Cybersecurity Specialization — (ISC)² / Coursera
- Java Programming, HTML and CSS, Object-Oriented Programming (OOP) And SQL

Work Experience

Phoenix Business Consulting pvt ltd

Hyderabad, India

SAP ABAP Consultant

Aug 2022 – Sep 2024

- Designed and managed relational database structures, including Tables, Views, and Search Helps, to optimize data retrieval and streamline system performance
- Developed and implemented Classical, Interactive, and ALV (ABAP List Viewer) reports, enhancing data visualization and user decision-making processes
- Created and customized SAP Scripts and Smart Forms to generate dynamic, business-critical documents, improving workflow efficiency and document automation

Projects

Web Application Vulnerability Testing using DVWA

Apr 2025

- Set up and configured DVWA (Damn Vulnerable Web Application) using Docker on macOS (M3 chip)

- Performed hands-on testing of OWASP Top 10 vulnerabilities including SQL Injection, XSS, CSRF, Command Injection, and Insecure File Upload
- Simulated real-world attack scenarios and validated security flaws through manual testing
- Documented findings and proposed remediation strategies such as input validation, secure authentication, and file upload restrictions
- Utilized tools like web browsers, terminal, and optional Burp Suite for vulnerability discovery and verification

AI-Powered Cloud Security Posture & Deception Platform

Aug 25-Dec 25

Tools & Technologies: Python, AWS (Boto3), Azure SDK, GCP SDK, Flask, React, TensorFlow, Scikit-learn, Slack API, Terraform

- Designed and contributed to an AI-powered cloud security platform to detect misconfigurations, assess risks, and improve cloud security posture.
- Performed cloud risk assessment and threat modeling for AWS services including IAM, S3, EC2, Security Groups, Lambda, and RDS.
- Developed risk matrices and threat scenarios identifying critical issues such as excessive IAM permissions, public S3 buckets, and open security groups.
- Mapped cloud threats to MITRE ATT&CK techniques and CIS Benchmarks to support security analysis and compliance readiness.
- Collaborated with a cross-functional team to integrate honeypots for capturing attacker behavior and detecting lateral movement.
- Supported real-time alerting and remediation workflows, reducing Mean Time to Detect (MTTD) and Mean Time to Respond (MTTR).
- Ensured alignment with **HIPAA, PCI DSS, SOC 2, ISO 27001, and GDPR** compliance requirements.