

BALA PRASANNA GOPAL VOLISETTY

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PROFESSIONAL SUMMARY

Cybersecurity & Cloud Security Engineer with expertise in AWS security, SIEM, incident response, and cloud infrastructure protection. Skilled in Python, Terraform, and threat detection, with a strong understanding of network security compliance (NIST 800-171, 800-53). Passionate about cloud security automation, IAM, and anomaly detection.

EDUCATION

Rochester Institute of Technology, Rochester, NY

Master of Science in Cybersecurity

Aug 2022 – Present

Relevant Courses: Advanced Network Security, Web Server Application Security Audits, Computer System Security, Cryptography & Authentication, Cybersecurity Analytics, Machine Learning

Awards: 25% Graduate Student Scholarship for academic excellence.

KL University, Vijayawada, India

Bachelor of Technology in Electronics and Communications Engineering

Jul 2018 – Mar 2022

Specialization: Data Computing

SKILLS

- **Cloud Security:** AWS Security, IAM, CloudTrail, GuardDuty, Security Hub
- **Security Operations & IR:** SIEM (Splunk, Chronicle Security), Threat Intelligence, Anomaly Detection
- **Network Security:** Palo Alto, Fortinet, IDS/IPS, Zeek, Sysmon
- **Security Automation:** Python, Terraform, Ansible, Bash
- **Infrastructure & Orchestration:** Kubernetes, Docker, Serverless
- **Compliance & Risk:** NIST 800-171, 800-53, Cloud Security Audits

CERTIFICATIONS

- eJPT (Junior Penetration Tester)
- CompTIA CySA+.
- Microsoft Cybersecurity Analyst Professional Certificate.
- API Security Fundamentals.
- INE Certified Cloud Associate.
- AWS Certified Cloud Practitioner.

WORK EXPERIENCE

Teaching Assistant – CSEC 742: Computing System Security

Rochester Institute of Technology, Rochester, NY

Jan 2025 - Present

- Led cryptography & network security labs, reinforcing threat modeling & secure system design.
- Mentored students on security fundamentals, including access control & vulnerability assessment.
- Collaborated with faculty to align coursework with emerging cybersecurity trends.

Cybersecurity Analyst (CTF Competitor)

National Cyber League, Hack The Box, TryHackMe, LetsDefend

Sep 2022 – Present

- Conducted AWS cloud security testing and configured IAM security policies.
- Developed Python-based threat detection scripts, reducing response time by 40%.
- Improved cloud monitoring efficiency using AWS GuardDuty & Google SCC.
- Enhanced SIEM (Splunk) log analysis and designed cloud security playbooks.

PROJECTS

SOC Incident Detection & Threat Hunting

- Designed an automated log analysis pipeline using Splunk, ELK, and Python, reducing false positives by 30%.
- Conducted threat hunting using MITRE ATT&CK, Sigma rules, and YARA, improving detection of advanced persistent threats (APTs).
- Monitored SIEM alerts, IDS/IPS logs (Snort, Suricata), and endpoint security tools to enhance real-time threat visibility.

Cloud Security Hardening & Threat Detection

- Developed an automated security monitoring system for AWS, integrating GuardDuty, CloudTrail, and Security Hub.
- Implemented Terraform for Infrastructure-as-Code (IaC) security configurations.
- Deployed a Kubernetes-based honeypot to detect and log attack patterns.

SIEM & Incident Response Optimization

- Enhanced Google Chronicle Security SIEM rules to improve attack detection by 45%.
- Created a Python-based automation script to correlate security logs and generate real-time alerts.
- Reduced false positives by 20% through advanced log correlation techniques.