

# ABHISHEK REDDY KAVALI

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## SUMMARY

Cybersecurity professional with a Master's in Cybersecurity and hands-on experience in security operations, threat modeling, and incident response. Certified CompTIA Security+, Google Cybersecurity, CCNA, AWS Solutions Architect with expertise in security tools such as Nessus, Splunk, Snort, and SentinelOne. Adept at applying MITRE ATT&CK, STRIDE, and ISO 21434 methodologies for risk assessment and vulnerability management. Proficient in scripting languages like Python and PowerShell for automation and process optimization. Strong communicator, skilled in conveying complex security information to both technical and non-technical teams to ensure effective security posture and awareness.

## EXPERIENCE

### University of North Carolina at Charlotte (UNCC)

Charlotte, NC, USA

Technical Linux Specialist | OneIT

Aug 2023 – Dec 2024

- Improved performance by 20% for 200+ faculty and students through Linux troubleshooting and TDXnext ticketing, while enhancing security by 10% using AWX and Manage Engine for continuous monitoring (COMMON) & vulnerability management.
- Deployed Ubuntu & RHEL OS across 100+ workstations with 100% compatibility and reduced unauthorized access by 30% through Active Directory access control measures.
- Implemented a VDI solution for UNCC Anywhere, achieving a 99% availability rate, and increased efficiency by 20% with SCCM Autobuild for software updates and device management.
- Managed a \$200,000 budget with 95% accuracy, tracking 120+ resources, and improved automation by migrating from PUPPET to ANSIBLE.
- Enhanced Identity and Access Management (IAM) by integrating centralized authentication systems (SSO), reducing login times by 25% and improving compliance with security policies across Linux-based systems.

### L&T Technology Services Ltd. (LTTS)

Bangalore, India

Cyber Security Analyst

Jun 2020 – Jun 2023

- Conducted Threat Analysis and Risk Assessment (TARA) using STRIDE and Heaven's security model, reducing risks by 40% and ensuring ISO 21434 compliance. Enhanced ECU security through Threat Modelling with Microsoft TMT.
- Performed security assessments with Nessus, decreasing critical security risks, and improved application security by 30% through VAPT on thick client applications.
- Documented vulnerabilities with CVE ratings and CVSS scores, providing actionable mitigation recommendations. Monitored and triaged security incidents using Splunk, ensuring proper escalation.
- Analyzed threats with the MITRE ATT&CK framework and demonstrated strong TCP/IP networking skills with Wireshark. Utilized IDS/IPS, anti-virus, and EDR tools like Snort and SentinelOne.

**Technologies/Tools:** Burp Suite, Wireshark, HexEditorNeo, OWASP, VAPT, TCP/IP, Splunk

### Invensis Technologies Pvt. Ltd.

Bangalore, India

Django Developer Intern (Project Link)

Dec 2019 - Mar 2020

- Developed a Django based WebApp with REST API, HTML5, and CSS3 for employee data management, incorporating features like Signup, Login, Upload, Store, and Retrieve from the Database.

**Technologies/Tools:** Django, REST API, HTML5, CSS3, Postman, Visual Studio Code.

## CERTIFICATIONS

CompTIA Security+ | AWS Certified Solutions Architect – Associate | CCNA | Google Cybersecurity Certificate | Technical Support Fundamentals | Introduction to Cybersecurity Tools & Cyber Attacks | Cybersecurity Roles, Processes & Operating System Security | Python Skills Certification Test | Red Hat System Administration-1 | Google Android Developer Phase-1

## EDUCATION

### University of North Carolina at Charlotte

Charlotte, NC

Masters in Cybersecurity

Fall 2023 - Fall 2024

### Madanapalle Institute of Technology & Science

Madanapalle, India

Bachelor of Technology in Computer Science & Engineering

2016 - 2020

## SKILLS

**Security Tools:** Splunk, Wireshark, Nessus, Burp Suite, AccessData FTK Imager, Autopsy, Arsenal Image Mounter, HexEditorNeo

**Development & DevOps:** AWS (Certified Solutions Architect – Associate) Git, Postman, Visual Studio Code, BPM, Camunda

**System Administration & OS:** System Administration (Linux), Windows, macOS, TDXnext, Puppet, Ansible

**Project & IT Management:** JIRA, Confluence, Agile Methodologies, ITSM, Change Management, Microsoft Office

**Frameworks & Protocols:** TCP/IP, OWASP, Risk Management Framework (RMF), Django, REST API, Robot Framework

**Languages:** Python, C/C++, SQL, HTML5, CSS3

**Soft Skills:** End-User Testing, Data Migration Validation, Project Coordination

**Languages Spoken:** Telugu(Native), English(Fluent), Tamil(Basic), Hindi(Basic)

## ACADEMIC PROJECTS

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**IAM Platform Enhancement:** Designed and implemented an IAM solution on the Ubuntu platform, integrating Single Sign-On (SSO), Multi-Factor Authentication (MFA), LDAP for access management, and Kerberos for secure authentication, while enforcing Discretionary, Mandatory, Role-Based, and Attribute-Based Access Control (DAC, MAC, RBAC, ABAC) models. Configured SSH for secure communication and ensured compliance with organizational security policies.

**CyberGuardian | Automated Cybersecurity Suite for Business using Splunk and Python:** Developed an automated system utilizing Splunk and SIEM for CVE identification, network security, and anomaly detection, with Python scripts for automated email alerts. *Technologies/Tools:* Splunk, Python, Powershell, Visual Studio Code, ZeroTier

**Malware Analysis:** Carried out both static and dynamic analysis on malware to understand its behavior, identify techniques employed by it such as command control, exfiltration, and suggest efficient countermeasures.

**Computer Forensics Investigation:** Conducted detailed digital forensics on a Windows system to investigate criminal activities, analyzing communications, images, web searches, geolocation data, and encoded/plain text files. *Technologies/Tools:* AccessData FTK Imager, Autopsy, WinZip, AccessData Registry Viewer, Arsenal Image Mounter, Text & File Encryptors