

# BHARATH MUKKA

Security Engineer | MS – Cybersecurity

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**LinkedIn:** <https://www.linkedin.com/in/bharath-mukka/> **Portfolio:** <https://www.bharathmukka.com/>

Cybersecurity professional with a master's degree from the University of Missouri–St. Louis and over 5 years of experience across vulnerability detection, threat research, and security engineering. Passionate about applying technical expertise to strengthen security posture, reduce risk, and contribute to organizational goals in the field of information security.

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## WORK EXPERIENCE

### Senior Security Engineer

(Security Engineer | Security Research Intern)

**Qualys Inc.** 07/2021 - Present

- Developed host & network vulnerability signatures in Lua (and Python/Bash) for DB, OS, apps, TCP/IP, and network devices, expanding detection coverage and accuracy.
- Reduced FP/FN rates by designing validation workflows & regression tests, boosting vulnerability data accuracy and prioritization.
- Led detection program for a marquee client, delivering custom signatures, supporting research sustainability, and influencing product roadmap.
- Delivered rapid CVE coverage & PCI recertifications, cutting time-to-detection and enabling vulnerability prioritization.
- Optimized detection performance (+30% static analysis, -40% execution time) to increase scan throughput & platform efficiency.

### Graduate Teaching Assistant

**University of Missouri-St. Louis** 01/2021 - 07/2021

- Assisted professor and students with the course CMPSCI 4730 Computer Networks and Communications.
- Designed lab exercises including Ping, Traceroute, Wireshark, Nmap, SSL/TLS, and Cryptography.
- Conducted office hours to assist students with the lab work, course content, and Assignments.

### Assistant System Engineer - Cybersecurity

**Tata Consultancy Services** 09/2018 - 12/2019

- Acted as an Administrative Support for Identity and Access Management, PAM, and CyberArk EPV.
- Resolved incidents related to privileged accounts, file share access management and account provisioning.
- Redesigned the critical Incident Management methodology, which increased the response time by 20%.
- Collaborated with Teams across Canada, the US and India to resolve issues with CyberArk Password Vault.
- Supported internal teams in collaborative activities and trained new team members on IAM processes.

## SKILLS

Vulnerability Management    Penetration Testing    Detection Engineering    OWASP Top 10  
Threat Research    Security Auditing    Computer Forensics    Identity Access Management

**Languages:** Lua, Python, C, C++, Bash, SQL, and JavaScript

**Platforms:** Mac, Windows, All Linux Flavors, and Network Devices.

## EDUCATION

### Master of Science – Cybersecurity

University of Missouri-St. Louis, USA    01/2020 - 12/2021    GPA 3.7/4.0

### Bachelor of Technology – Computer Science

GITAM University, India    06/2014 - 04/2018    GPA 3.4/4.0

## CERTIFICATIONS

Certified Ethical Hacker (CEH), Python, Foundations of Generative AI, and AI for Cybersecurity  
In-Progress: OSCP and AI Specialization.