AKSHAY RAJENDRA GALGALI

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Education

University of Houston, Houston, TX   *Aug 2021 - May 2023*
Master of Science in Cybersecurity   *GPA: 3.9/4.0*

University of Mumbai, Maharashtra, India   *May 2018 - June 2021*
Bachelors of Engineering in Information Technology   *CGPA: 8.76/10.0*

Work Experience

5G Software Engineer - Co-op   *Jan 2023 - Present*
Simnovus, Cary, North Carolina
- Contributed to design of new features for 5G simulation software.
- Aided in testing the application against security risks/parameters before release.
- Responsible for developing new features in the 5G software simulator to minimize vulnerabilities by implementing secure coding standards, security policies, and best cybersecurity practices.

Instructional Assistant - Wi-Fi   *Sept 2022 - Jan 2023*
WIFI Team, Dept of Technology Support & Services, University of Houston
- Led a team of two to maintain and monitor traffic that entered the campus WIFI network, this was achieved using Aruba Central, which helped in authentication and implementation of security policies for 6500 Aruba access points on campus.
- Conducted a Wi-Fi Network Audit by analyzing the network, reviewing status of APs, and updating inventory of all APs which resulted in inventory list update and meeting compliance standards requirement of WIFI on campus.
- Reviewed and analyzed security architecture & policies that was built on 500 acres of campus which comprised of two data centers and 6500 APs which resulted in efficiently gathering evidence and assisting in deployment of the NIST 800-207 framework.
- Developed and conducted security audit to monitor all access points on campus, using Ekahau data capture files and running them on Aruba central tool, which enabled our team to find 40 rouge access points and resting them to work effectively.

Projects

MALIURL - *Malicious URL detection system*
- Developed a security system to detect Malicious URLS by utilizing a Phish tank dataset containing malicious and benevolent URLs to generate various URL- based, domain-based, page-based features.
- Trained a Random Forest classifier on generated features to predict a URL as malicious or benevolent so as to mitigate the increasing phishing attacks happening throughout the internet.

HACKTHEKEY - *Keystroke Logger*
- Developed a keystroke logger in an active browser using python scripting and libraries, to retrieve sensitive information and credentials of a user like username, passwords, credit card details, etc.
- The credentials and URL information with login timestamp is sent via email to the attacker.

SAFEICS - *Designed Firewall Architecture for standard Industrial Control System*
- Designed secure infrastructure for establishing secure Industrial Control System architecture which includes SCADA, PLC and DCS and other control system configurations.
- Followed and implemented policies and standards provided by NIST SP 800-82 documentation for Industrial Control System.

Skills

Skills: Vulnerability Assessment, Network Security, Incident Handling, Penetration Testing, IT/OT Security.
Programming: Proficient in Python, C, Bash scripting, Shell Scripting.
Operating System: Windows, Linux, Macintosh, Security Onion.
Tools: Exposure to Aruba Central, Ekahau, Wireshark, Nmap, Burp Suite, SSHClient, Kibana, Docker, MobaXterm.

Certifications

- Python Programming (University of Michigan)
- Cloud Computing (Coursera)

Extra-Curricular Activities

- **Rock Climbing | Lead Climber**   - Certified Lead Belayer at University of Houston.
- **Emergency Aider**   - Certified in CPR/AED from American Red Cross.
- **President**   - Code-Cell Coding Committee of College, TSEC Mumbai.