

Shaikh Ahmed

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EDUCATION

Rhine-Waal University of Applied Sciences

Kleve, Germany

B.Sc. in Electrical and Electronics Engineering

Aug 2020 – Feb 2025

- Specialising in Cybersecurity, Software Security and Information Security GRC
- Recipient of DAAD Stipendium/Scholarship
- Other modules: Programming (Java, Python, C,C++, Matlab); Networks; Automation; Mobile Information Devices; Microcontrollers; Embedded & Microelectronic Systems; Signal Processing; Machine Learning

EXPERIENCE

Software Developer

Dec 2022 – Present

Cumulocity IoT by SoftwareAG

Düsseldorf, Germany

- Improved service security against XSS vulnerabilities by managing third party dependencies
- Strengthened network security by creating firewalls on the application layer to protect against DDoS attacks
- Improved IT infrastructure by implementing Github workflows for CI/CD and assisted in implementation of GHAS(Github Advanced Security)
- Coordinated between product and security teams to facilitate external pen testing
- Used JIRA to track and resolve tasks related to REST, Docker/K8s configuration, multithreading, logging, persistent and cached storage

Cyber Threat Intelligence Researcher

Sep 2023 – Jan 2024

Institut supérieur d'électronique

Paris, France

- Developed GUI application to collect, process and represent Cyber Threat Intelligence (CTI)
- Utilized web scraping and APIs to collect raw data
- Used NLP to process CTI in natural language from OSINT and generated in exportable Knowledge Graphs for ML
- Documented, published and presented the research at International Wireless Communications and Mobile Computing 2024 conference in Cyprus

Cybersecurity Intern

Mar 2023 – Aug 2023

Cumulocity IoT by SoftwareAG

Düsseldorf, Germany

- Conducted risk and vulnerability assessments on the LWM2M Service focusing on resilience against DDoS attacks
- Tested network and service security for vulnerabilities using Network Stressing tools, Python and Bash
- Created report for all shareholders with found vulnerabilities, risk, mitigation recommendations, etc.
- Mitigated risk using Applied token bucket algorithm to ensure QoS

PROJECTS

OWASP Vulnerability Finder | Python

Nov 2022-Jan 2024

- Created a web-app to find OWASP top 10:2021 with a true positive rate of approx. 70%
- Used sitemaps and brute forcing to automate crawling and directory detection
- Designed to find XSS, CSRF, XXE, Verbose Ouput, SQL Injection vulnerabilities

Private Proxy and DNS Tunnel using AWS | Amazon AWS, Linux, Iodine

Sep 2022

- Deployed Amazon EC2 instance to act as a private proxy server
- Implemented DNS tunnel using Iodine and proxy using SOCKS
- Configured network security using AWS security groups and Iptables to control traffic

TECHNICAL SKILLS

Developer Tools: Git, JIRA, Docker, Kubernetes, Github Actions, Postman, IntelliJ, Maven, MS Office

Languages and Frameworks: Java, Python, Bash, C++, SQL, JavaScript, MATLAB, Latex, Springboot, Django

Cybersecurity Tools: Burpsuite, Nmap, Netcat, Wireshark, SQLmap, OWASP ZAP, IP Tables, Locust

LANGUAGES

English C2

German B1

Hindi C1

French A1