

# Shaikh Ahmed

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## EDUCATION

### Rhine-Waal University of Applied Sciences

Kleve, Germany

*B.Sc. in Electrical and Electronics Engineering*

*Aug 2020 – Aug 2024*

- Specialising in Cybersecurity, Software Security, Risk, Audit and Security Governance during Semester-Abroad
- Relevant modules: Programming; Networks; Automation; Mobile Information Devices; Microcontrollers; Embedded & Microelectronic Systems; Signal, Audio and Speech Processing
- Recipient of DAAD Stipendium/Scholarship

## EXPERIENCE

### Software Developer

Dec 2022 – Present

*Cumulocity IoT by SoftwareAG*

*Düsseldorf, Germany*

- Reduced third party vendor risk by migrating to maintained dependencies to resolve XSS vulnerability
- Reduced risk from reflected DDoS attacks by creating application-layer firewalls to harden Lwm2m Service
- 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
- Created features and resolved bugs caused due to APIs, JAVA, logging, persistent and cached memory

### Cyber Threat Intelligence Researcher

Sep 2023 – Jan 2024

*Institut supérieur d'électronique*

*Paris, France*

- Developed a GUI application to collect, process and represent cyber threat intelligence (CTI)
- Utilized web scraping and APIs to collect raw data from OSINT
- Used NLP to process CTI in natural language and exported CTI in exportable graphs for Machine Learning
- Documented, published and presented the research at IEEE IWCMC 2024 conference in Cyprus

### Cybersecurity Consultant Intern

Mar 2023 – Aug 2023

*Cumulocity IoT by SoftwareAG*

*Düsseldorf, Germany*

- Performed Risk and Vulnerability assessment on LWM2M Service
- Implemented python and bash scripts to pen test LWM2M agent for DDoS attacks
- Documented and presented potential vulnerabilities, risk, mitigation tactics using pen test results
- Risk Mitigation using token bucket algorithm detected DDoS vulnerabilities

## PROJECTS

### Risk Audit for a Simulated SaaS company | Based on ISO 27005

Sep 2023 - Jan 2024

- Identification and Assessment of Risks originating due to different assets and policies
- Generation of Risk Matrix and Categorizing of risks to accept, reduce, deny or transfer
- Communication of Risks and suggested Mitigations

### CISCO Homelab | CISCO Packet Tracer, CISCO IOS and CLI

Jun 2022

- Created a simulated network using switches, routers and hubs to better understand LAN and WAN
- Configured routing, security, etc for network devices
- Deepened knowledge on important protocols used like TCP, IP, UDP, QUIC, RIP, EGP, IGP, STP, etc

## 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