

Abdelrahman Awad

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EDUCATION

- **Rochester Institute of Technology (RIT)** Dubai, United Arab Emirates
B.S Cybersecurity 2020 – 2024

SKILLS

- **Programming Languages:** Java, Python, C#, Rust, Typescript, Shell Scripting, LaTeX
- **Frameworks / Libraries:** Spring Boot, Django, Flask, React, Next.js, Angular, ASP.NET, JQuery
- **Databases / Backend:** PostgreSQL, MySQL, Docker, REST APIs, Microservices
- **Cybersecurity / Tools:** Burp Suite, Metasploit, Suricata, Wireshark, Nmap, OpenVAS, Nessus, IDA Pro, Ghidra, Cobalt Strike, Snort, Active Directory Security, Wazuh IDS, Firewall Configuration, Kali Linux

EXPERIENCE

- **e& (Etisalat and Group)** Dubai, United Arab Emirates
Software Engineer Intern August 2024 - Present
 - **Backend Development:** Implemented REST controllers and request validation using **Spring Boot**, improving API reliability and reducing service errors for internal microservices.
 - **Issue Debugging:** Analyzed service logs and stack traces to diagnose backend issues, assisting in development with faster bug resolution.
 - **Ticket Resolution:** Investigated and closed assigned Jira tickets involving API behavior, configuration, and service-level bugs.
- **Malcrove** Remote
Cybersecurity Intern Mar 2022 – Sep 2022
 - **Security Assessment Assistance:** accompanied on site penetration tests, studied firewall setup and Suricata rule configuration, assisted in report writing and formatting
- **Rochester Institute of Technology** Dubai, United Arab Emirates
Student Researcher June 2023 – November 2023
 - **Malware Development:** Built basic Android remote-access tooling to simulate spyware behavior for data collection.
 - **ML-Based Detection:** Wrote Python script to train ML models to detect anomalous microphone and camera usage patterns from system call data.

PROJECTS

- **MediTracker (Personal Project):** Designed and implemented RESTful APIs using **Spring Boot**, enabling secure user-specific data access. Integrated **PostgreSQL** with **Docker** and a **React** front-end layer, simplifying local development and deployment. Containerized each component independently, reducing setup time and improving maintainability.
- **Secure Company Environment (Active Directory + Wazuh IDS):** Built a secure Windows domain environment using Active Directory and Group Policy. Integrated Wazuh IDS for real-time monitoring, log collection, and security alerting.
- **Rust Command and Control Framework (Cybersecurity Tool):** Designed an asynchronous TCP-based multi-client C2 system using **Tokio** and **rustls**. Implemented runtime certificate management and modular command handling.
- **CPTC Regionals — 2nd Place:** Competed in the regional Global Collegiate Penetration Testing Competition competition with team. Achieved 2nd place after months of training in offensive cybersecurity challenges.