

FAIAZ ISLAM

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Education

Kantonsschule Hottingen

Aug. 2019 – June 2023

High School Diploma (Matura), Major: Economics and Law, Minor: Computer Science

Zurich, ZH

University of Zurich

Sep. 2024 – May 2027

Bachelor of Science in Computer Science, Major: Information Systems, Minor: Banking and Finance

Zurich, ZH

Relevant Coursework

- ICT-Smart-User SIZ
- Google Cybersecurity Certificate
- Google IT Support Certificate

Experience

Mossé Cyber Security Institute

April 2024 – Present

Cyber Security Intern

Remote

- Performed network vulnerability scans and exploited vulnerabilities with Metasploit.
- Identified and exploited web application vulnerabilities without tools and wrote custom offensive security tools to aid Red Teaming operators.
- Assessed the security settings of Windows machines, hardened them, and hunted for malware using YARA.
- Hunted for threat actors on Windows networks using Python and defended web applications against common vulnerabilities.

HackerOne

July 2024 – Present

Security Researcher

Remote

- Engage in Capture the Flag (CTF) competitions to hone skills in identifying and exploiting vulnerabilities across diverse digital environments.
- Conduct comprehensive bug bounty programs to proactively discover and responsibly disclose security vulnerabilities in client systems and applications.
- Execute rigorous penetration tests to evaluate and strengthen the resilience of network infrastructures and software solutions against potential cyber threats.

Projects

Blockchain Transaction Web App | Python, Flask

February 2024

- Developed a decentralized blockchain application using Python and Flask to facilitate secure and transparent money transactions.
- Implemented proof-of-work mining algorithm and SHA-256 hashing mechanisms for enhanced data integrity and security within the blockchain.
- Created a user-friendly web interface using HTML, Bootstrap, and Flask to interact with the blockchain, enabling real-time transaction validation and display.

IAM Homelab | Azure Active Directory, Microsoft Forms

May 2024

- Designed a user onboarding system using Microsoft Forms to gather user information and Power Automate to seamlessly transfer data to Azure Active Directory (Azure AD).
- Automated the assignment of users to specific groups within Azure AD using its Privileged Identity Management (PIM) module, ensuring efficient role-based access control.
- Streamlined identity management processes, reducing manual workload and enhancing security by leveraging real-time user data integration and dynamic group assignments.

SIEM Homelab | Microsoft Sentinel, Azure

May 2024

- Deployed Microsoft Sentinel within Azure to create a robust SIEM environment, capable of ingesting and analyzing real-time security event data from various sources.
- Configured advanced alerting and detection rules in Microsoft Sentinel to identify and respond to potential security threats, enhancing the overall security posture.
- Utilized Sentinel's visualization tools to create live dashboards, providing clear and actionable insights into ongoing security events and trends, facilitating proactive security management.

Technical Skills

Languages: Python, Java, HTML/CSS

Developer Tools: VS Code, Eclipse, Virtual Box

Technologies/Frameworks: Linux, Powershell, CMD