Fajar Malik

♥ Espoo, Finland ☑ mrfajarmalik@gmail.com *ð* thefajarmalik.com **in** thefajarmalik

Education

M.Sc. Norwegian University of Science & Technology (NTNU), Information Security & Cloud Computing Trondheim, Norway

Information security specialization track for the double degree master program.

2023 - 2024

Coursework: Advanced Ethical Hacking, Wireless Network Security, Critical Infrastructure Security

M.Sc. Aalto University, Information Security & Cloud Computing

Espoo, Finland

• Awarded full scholarship from the European Union for the Erasmus Mundus Joint Master double-degree program (3.5% acceptance rate).

2022 - 2024

· Coursework: Cryptography, Information Security, Laboratory Works in Networking and Security

• Current Grade: 4.17/5.00

Experience _____

Aalto University, Research Assistant (Thesis Worker)

Espoo, Finland

• Designing and developing a federated authentication protocol for short-lived container environments. Conducting formal security analysis using ProVerif to verify the security of the authentication protocol. Feb 2024 – present 7 months

• Skills: Network security, cloud, automated formal verification, federated authentication.

• Tech: Docker, Linux Scripting, JavaScript, Python, ProVerif.

Aalto University, Research Assistant (Course Developer)

Espoo, Finland

 Developed automated grading system for course Cloud Software & Systems. Fixed a security bug where a student was able to submit other student's submission.

May 2023 - Aug 2023 3 months

• **Tech:** GitLab CI/CD, Shell Scripting, Docker, Kubernetes.

Aalto University, Teaching Assistant for Information Security

Espoo, Finland

• Assisted students during hands-on exercises on a wide array of cybersecurity topics.

Sept 2022 - Oct 2022 1 month

• **Skills:** Cybersecurity, SQL injection, password cracking, XSS, buffer overflow.

OmahTI UGM, IT Project Manager / Consultant

Indonesia

• Successfully delivered 14 projects providing software solutions for our customers. Acquired excellent acceptance rate & increased revenue. Resolved issues regarding project scopes & documentations.

Dec 2018 - Dec 2019 1 year 1 month

• **Skills:** Project management, communication, negotiation, requirement analysis.

Projects _

Wireless Network Penetration

2023

- Captured network packets to crack password in Wi-Fi networks using WEP and WPA2-PSK (course project).
- **Technologies:** Airodump-ng, Wireshark, John-the-ripper.

Windows 7 Buffer Overflow Exploit

2023

- Exploited a buffer overflow vulnerability to gain Remote Code Execution on Windows 7 (course project).
- Technologies: Kali Linux, Immunity Debugger, Python.

Smoke Beefs (Animal Growth IoT Tracking System, Customer Project) Google Play Store Archive 🗹

2021

- Developed an Android app for a client, serving as a tracking dashboard. The project won a prestigious national research competition, showcasing innovation and technical excellence.
- Technologies: Android Studio, Kotlin, Firebase, Raspberry Pi, Arduino, sensors.

A list of my projects can be found in my portfolio website 🗹

Skills _

Programming Languages: Python, C++, Go, Java, Kotlin, JavaScript

Technologies: ProVerif, Linux Scripting, Git, Docker, React, Android Studio

Interests: Cybersecurity, software development, consulting