Fajar Malik

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Education

M.Sc. **Norwegian University of Science & Technology (NTNU)**, Information Security & Cloud Computing — Trondheim, Norway 2023 – 2024
- Information security specialization track for the double degree master program.
- **Coursework:** Advanced Ethical Hacking, Critical Infrastructure Security.

M.Sc. **Aalto University**, Information Security & Cloud Computing — Espoo, Finland 2022 – 2024
- Awarded full scholarship from the European Union for the Erasmus Mundus Joint Master double-degree program (3.5% acceptance rate).
- **Coursework:** Information Security, Cryptography

Experience

Aalto University, Research Assistant (Thesis Worker) — Espoo, Finland Feb 2024 – Aug 2024 6 months
- Investigating and developing secure authentication protocol in cloud, as well as formal security analysis using ProVerif.
- **Skills:** Network security, secure protocol development, automated formal verification.

Aalto University, Teaching Assistant for Information Security — Espoo, Finland Sept 2022 – Oct 2022 1 month
- Assisted students during hands-on exercises on a wide array of cybersecurity topics.
- **Skills:** Cyber security, SQL injection, password cracking, XSS, buffer overflow.

Sinarmas Mining, IT Trainee — Indonesia Nov 2021 – Mar 2022 4 months
- Developed LMS web application for internal RnD.
- **Skills:** Go, React

OmahTI UGM, IT Project Manager — Indonesia Dec 2018 – Dec 2019 1 year 1 month
- Successfully delivered 14 projects providing software solutions for our clients. Acquired excellent acceptance rate & increased revenue. Resolved issues regarding project scopes & documentations.
- **Skills:** Project management, communication, negotiation, requirement analysis.

Projects

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.

Automatic Exercise Grading System — 2023
- Developed an automated grading system for Cloud Software & Systems course. Fixed a security bug where a student was able to submit other student's submission.
- **Technologies:** Docker, Python, GitLab CI/CD, Aplus LMS.

Smoke Beefs (IoT-based animal growth tracking system) — 2021
- Developed an Android app serving as a tracking dashboard. The project won a prestigious national competition, showcasing innovation and technical excellence.
- **Technologies:** Android Studio, Kotlin, Firebase, Raspberry Pi, Arduino, sensors.

AHPSAW (bachelor thesis project) — 2020
- Engineered an advanced COVID-19 risk mapping model by integrating medical, geographic, demographic, and meterological data, therefore enhancing community risk assessment capabilities.
- **Technologies:** Android Studio, Kotlin, Firebase, Weather API.

Other

Languages: Indonesian (native), English (fluent, C1)

Other Interests: Mental health awareness, badminton