

# Fajar Malik

📍 Espoo, Finland   ✉ mrfajarmalik@gmail.com   🔗 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:** 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  
• **Current Grade:** 4.17/5.00
- B.Cs. Universitas Gadjah Mada**, Computer Science   Indonesia  
• Graduated one semester early with cum laude honor. 2017 – 2021  
• **Coursework:** Cryptography and Network Security, Machine Learning, Artificial Intelligence.  
• **Grade:** 3.62/4.00 (90.5%)

## Experience

- Aalto University**, Research Assistant (Thesis Worker)   Espoo, Finland  
• Designing and developing a federated authentication protocol for short-lived container environments. Feb 2024 – present  
• Conducting formal security analysis using ProVerif to verify the security of the authentication protocol. 7 months  
• **Skills:** Network security, cloud, automated formal verification, federated authentication.  
• **Tech:** Docker, Aplus LMS, 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  
• **Tech:** Aplus LMS, GitLab CI/CD, Shell Scripting, Docker, Kubernetes. 3 months
- 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  
• **Skills:** Cyber security, SQL injection, password cracking, XSS, buffer overflow. 1 month
- 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  
• **Skills:** Project management, communication, negotiation, requirement analysis. 1 year 1 month

## Projects

- Smoke Beefs (Animal Growth IoT Tracking System, Customer Project)** [Google Play Store Archive](#) [🔗](#)   2021  
• Developed an Android app 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.
- AHPSAW (bachelor thesis project)** [GitHub](#) [🔗](#)   2020  
• Engineered an advanced COVID-19 risk mapping machine learning model by integrating medical, geographic, demographic, and meteorological data, therefore enhancing community risk assessment capabilities.  
• **Technologies:** Unsupervised Machine Learning, Android Studio, Kotlin, Firebase, Weather API.

## Skills

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

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

**Interests:** Cyber security, research, software development, consulting, cloud