Fajar Malik

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Education

M.Sc. **Aalto University**, Security & Cloud Computing   Espoo, Finland
- Awarded full scholarship from the European Union for the Erasmus Mundus Joint Master   2022 – 2024
  double-degree program (3.5% acceptance rate).
- **Coursework:** Full Stack Web Development, Cloud Software & Systems, Information Security.
- **Grade**: 4.12/5.00 (Honors)

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

Experience

Aalto University, Research Assistant (Thesis Worker)   Espoo, Finland
- Designed and implemented a privacy-preserving authentication protocol for short-lived container   Feb 2024 – Sept 2024
  environments. Developed a working prototype. Conducted formal security analysis to verify the security   7 months
  of the authentication protocol. The thesis was awarded a very good grade.
- **Skills:** Network security, cloud, automated formal verification.
- **Tech:** JavaScript, Python, Docker, Shell Scripting, ProVerif.

Aalto University, Research Assistant (Course Developer)   Espoo, Finland
- Developed automated grading system for course Cloud Software & Systems. Fixed a security bug where a   May 2023 – Aug 2023
  student was able to submit other student's submission.   3 months
- **Tech:** Python, Docker, Shell Scripting, GitLab CI/CD, Kubernetes.

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

OmahTI UGM, IT Project Manager   Indonesia
- Analyzed clients' business requirements and transformed them into solution design. Successfully   Dec 2018 – Dec 2019
  delivered 14 projects providing software solutions for our customers & increased the company's revenue.   1 year 1 month
  Resolved issues regarding project scopes & documentations.
- **Skills:** Project management, communication, negotiation, requirement analysis.

Relevant Projects

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. The app was published
  in Google Play Store.
- **Technologies:** Kotlin, Firebase, Raspberry Pi, Arduino, sensors.

AHPSAW (Bachelor Thesis) GitHub ⧉   2020
- Engineered an advanced COVID-19 risk mapping machine learning model by integrating medical,
  geographic, demographic, and meterological data, therefore enhancing community risk assessment
  capabilities.
- **Technologies:** Android Studio, Kotlin, Firebase, Weather API, Unsupervised Machine Learning.

A detailed list of my projects can be found in my portfolio website ⧉

Skills

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

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

Interests: Cyber security, software development, AI