



Markus Muilu

Information technology student at Aalto University

Third-year Information Technology student at Aalto University with a current GPA of 4.39 and 165 completed credits after this fall. I am responsible, calm, goal-oriented, and proactive, with a strong interest in applying technology to solve real-world problems. A quick learner who enjoys taking responsibility and continuously challenging myself in both academic and work environments.

Portfolio: markusmuilu.page (End-to-End ML pipeline with Power Bi analytics)

Education

2023-2026

Aalto University

Bachelor of Electrical Engineering, Information Technology

- Minor in Computer Science
- Completed 139 credits with GPA 4.39 (165 after fall)
- Courses include: Networking, Signal Processing, Data Analytics, Machine Learning, Cloud Computing, Programming

2022-2023

Air Force Academy, Tikkakoski

Reserve Officer Training

- Awarded Best in Communications Line and ranked 3rd overall in the course
- Recognized as the Best Officer Candidate and Leader of the 2/22 batch in Tikkakoski
- Served as camp leader for a 10-day field exercise of over 300 conscripts

2019-2022

Schildtin lukio, Jyväskylä

High school diploma, sports line

Experience

2025 May-

Elo, Espoo

ICT-Trainee

- I started the trainee program as a Disability Pension Specialist, processing pension applications and providing customer service via phone.
- After strong performance, transitioned to the CRM, working part-time alongside studies.
- Responsibilities include: Maintain and develop Elo's Microsoft Dynamics 365 Sales system: monitor and analyze dataflows, perform testing and validation, and collaborate with external vendors and internal business units on new features and quality assurance.
- In addition, provide user guidance and support to business teams to ensure effective system use.

2024 May-2025 February

Vaisala, Vantaa

Electronic Mechanician

- Assembled weather and air-quality measurement devices and installed related software.
- Tested device components under varying conditions and learned six different production processes, demonstrating fast learning and adaptability.

Additional Roles

- Warehouse Worker, Stockmann, Tuusula – Summer 2023
- Entrepreneur, Aurinkosähköveme JKL – Summer 2021
- Course Maintenance Worker, Muurame Golf – Summer 2020

Contact Information

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Achievements

- Top of the line in IRUK 114 course and ranked 3rd overall
- Recognized as Best Leader of the Air Force Academy batch 2/2022
- Player in the 2022 Men's U20 Basketball European Championship
- Player in the 2021 Men's U18 Basketball Nordic Championship
- Huawei Seeds for the Future 2024 alumnus; European Tech4Good competition – People's Choice Award and 3rd overall out of 22 teams

Technical Skills

Programming: Python, JavaScript, SQL, C/C++, React, Scala

Cloud & DevOps: AWS (EC2, S3), Azure DevOps, Docker, Linux, REST APIs, Supabase

Data & ML: Data Engineering, Feature Engineering, Machine Learning Models, Power BI, Data Pipelines

Tools: Git/GitHub, FastAPI, VS Code, Microsoft Dynamics 365

Languages

Finnish

Native

English

Fluent

Projects

- **Predicting NBA – End-to-End Machine Learning Pipeline**

ML, Data pipelines, Cloud development

- Built full MLOps pipeline for NBA game predictions
- Data ingestion → preprocessing → feature engineering → model training
- Dockerized FastAPI backend deployed on AWS EC2
- Automated prediction pipeline, bootstrap container
- S3 architecture for storage and Power BI analytics
- React frontend for live predictions
- Version control and automation with GitHub