

Saku Kovanen

M.Sc. Candidate, Health Robotics & Signal Processing at
Aalto University

CONTACT

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Skills

- **Python (Expert)** (PyTorch, Numpy, Pydantic, Huggingface libraries, SciKit, Django, FastAPI, Pandas, beautifulSoup4, TensorFlow, Bleak, MQTT)
- **C/C++ (Proficient)** (Qt)
- **SQL (Proficient)** (PostgreSQL, SQLite)
- **Scala/Java (Proficient)**
- **JavaScript (Expert)** (Svelte.kit, ReactJS, NodeJS)
- **Matlab (Advanced)** (simulink)

Also, Linux, Slurm, Git, Docker, Microsoft Admin, Google Admin and Agile working methods are familiar to me.

Spoken Languages:

Finnish (Native), English (C2), Swedish (C1)

Education

09/2024 – Master's Programme in Health Technology Engineering

- Thesis topic: Detecting and Mitigating Hallucinations in LLMs
- Major: Health Robotics and Signal Processing
- Aalto University, Espoo

09/2021 – 06/2024 Bachelor's Programme in Science and Technology

- Major: Digital Systems and Design
- Minor: Data Science
- Aalto University, Espoo

Work Experience

1.10.2025 – Research Assistant, Aalto University

- Development of an AI summarization software (RAG, Vector DB, ASR, Pydantic AI, Docker)
- Research/development of code-switching text-to-speech (TTS) diffusion transformer

1.4.2025 – 30.9.2025 Master's Thesis Worker, Aalto University

6.5.2024 – Business Management, Pohjolan Polte Oy

- Founder, Accounting, Food stuff R&D, Food stuff production, Food stuff regulation

25.1.2022 – Web Development and IT Support, kovanen.io

2017 – 2021 Summer jobs: Property Maintenance, Kotikatu Oy, Porin Kiinteistöpalvelu, Eurajoen Kiinteistöpalvelu Oy

Hobbies

Machine learning tinkering, Linux Servers, Gym, Cycling, Swimming, and Climbing