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Education

RWTH Aachen University

MSc. in Software Systems Engineering

Oct 2025 -

Aachen, Germany

Aalto University

BSc. (Tech) in Computer Science. GPA 4.96 / 5, 188/180 ECTS.

Aug 2022 - May 2025

Espoo, Finland

Nanyang Technological University

Exchange studies

Aug 2023 - Dec 2023

Singapore, Singapore

Experience

CERN

OpenLab Summer Student Intern

Jun 2025 - Aug 2025

Geneva, Switzerland

- Designed blueprints and PoCs for active-active multi-cluster Kubernetes deployments across on-premise data centers using Kubernetes, Helm, Cilium, Openstack.
- Also designed blueprints for active-passive database replication across Kubernetes clusters.

Amazon

Data Engineer Intern

May 2024 - Aug 2024

Luxembourg, Luxembourg

- Migrated source databases and optimized data pipelines with Python (Pandas, NumPy), parallelism, SQL, and AWS, reducing runtime by 85%.
- Designed and deployed an internal Retrieval-Augmented Generation system using Python, AWS Bedrock, CDK, and other AWS services.

Nokia

Software Engineering Intern

Nov 2022 - Aug 2023

Espoo, Finland

- Built and maintained data science environments (JupyterHub) with Kubernetes, Docker, Helm, Python, and CI/CD.
- Researched and developed graph visualization tools with JavaScript, Node.js, and React; led a 6-person intern team.

Avanio

Junior Software Developer

Jan 2022 - Aug 2022

Salo, Finland

- Developed web applications with Node.js, React, and MongoDB; managed infrastructure on Azure with Docker and CI/CD.

Projects

Efficient Indexing for Regular Path Queries | Bachelor's Thesis

Oct 2024 - Mar 2025

- Studied indexing methods for regular path queries (RPQs) in graph-structured data; designed compact index stores balancing performance and space efficiency using matrix-based and automata-theoretic approaches. Grade: 5/5.

Autonomous Drone | Python, ROS2

Sep 2024 - May 2025

- Built an autonomous drone with Jetson Pixhawk, ROS2, Python, and YOLOv5. Implemented nodes for maneuvering, surveying, and target homing. Achieved accurate object detection and positioning in 8 test flights. Project link

InvShare - Investment Platform Web App | TypeScript, React, Node.js, GraphQL, MongoDB

Sep 2021 - Nov 2021

- Developed a mock social investment platform with authenticated user profiles, follower structure, stock ticker charts, and financial API integration. GitHub

Technical Skills

Languages: Python, TypeScript, Scala, C++, SQL, Bash

Developer Tools: Azure, AWS, GCP, GitHub, Linux/Unix, Robot Operating System (ROS)

Technologies/Frameworks: Docker, Kubernetes, Helm, React, Node.js, CI/CD, GraphQL, MongoDB, PostgreSQL, TCP/IP, Git, Redux

Relevant coursework: Computer Graphics, Advanced Computer Graphics, Machine Learning, Artificial Intelligence, Federated Learning, Operating Systems, Databases, Data Structures and Algorithms, Information Security, Computer Networks, Full Stack & Web Software Development Coursework (29 ECTS), Linear Algebra, Calculus I & II, Discrete Mathematics, Probability Calculus

Other

Certifications: Azure Fundamentals (Jan 2022) — Azure Developer Associate (Feb 2022 - Feb 2026) — Azure DevOps Engineer Expert (Mar 2022 - Mar 2026) — Azure Solutions Architect Expert (Mar 2022 - Mar 2026) — Azure Administrator Associate (Mar 2022 - Mar 2026) — Azure Data Scientist Associate (Apr 2022 - Apr 2026)

Languages: Finnish native — English fluent — German intermediate

Extracurricular: AaltoAI Hackathon VTT Challenge 1st runner-up (2025) — Aalto-Volley Men's 1st Team Lead & IT Responsible — MIRAI Visiting Japan Programme Participant (2024, organized by Japan's Ministry of Foreign Affairs) — Member of Aalto-Volley Team — Seeds for the Future Participant (2022, organized by Huawei) — Three-Time Finnish Junior Champion in Volleyball (2016, 2017, 2018)