

# Anh-Dung Nguyen

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## Education

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**Aalto university**, MS in Computer Science - Algorithms, Logic, and Computation track Sept 2023 – June 2025

- GPA: 4.63/5.0
- **Coursework:** Programming Parallel Computer, Programming Parallel Supercomputer, Big Data Platforms, Operating Systems

**Aalto university**, BS in Data Science Sept 2020 – June 2023

- GPA: 4.61/5.0 (Graduated with Honors)
- **Coursework:** Software Engineering, Full Stack Web Development, Methods of Data Mining, Machine Learning: Supervised Methods

## Experience

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**Research Assistant**, Aalto University Department of Computer Science – Espoo, Finland Apr 2024 – present

- Focusing on Machine Learning engineer in IoT-Edge-Cloud environments and big data problem in HPC
- Improve group prototype with Github Action for CI, basic testing with Pytest and tox, ruff linter, and rye for project management
- Maintaining test bed which consists of 23 edge devices and 3 servers with Ansible
- Project/Research paper that I take parts in:
  - Supporting Opportunistic Data Operations for Data-Intensive Computational Applications: to appear in BPOD - IEEE Big Data 2024
  - Novel techniques in orchestrating ML model in cloud-edge continuum
- Have experience working with:
  - Edge devices: Coral dev board, Raspberry Pi 4B/5, Jetson Nano/Xavier/Orin
  - ML framework and serving: pycoral/tflite, onnxruntime with CUDA and CPU
  - Vision model quantization with ONNX
  - Orchestration framework: K8s, microk8s, k3s
  - HPC systems and their software stack: LUMI, Puhti, Mahti, Aalto Triton

**Graduate Analyst Developer**, FNZ Group – Helsinki, Finland Nov 2022 – Oct 2023

- Develop new feature and fix bug in the leading wealth management platforms used by top Finland and UK financial institution.
- Maintain and implement new end-to-end tests using Cucumber, Selenium, and company test framework
- Optimize SQL statement, stored procedures, and view to meet strict production requirement
- Technologies used:
  - ASP.NET WebForms, MVC, Web API, GraphQL, and React
  - C#, VB.NET (legacy code), JavaScript
  - Microsoft SQL Server
  - TeamCity, Jira, Confluence