

# Anh Dao

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## Education

### M.Sc. in Computer Science

GPA: 4.65/5.00

Aalto University, Finland | Aug 2024 – Present

### B.A. in Computer Science

GPA: 3.76/4.00

Grinnell College, USA | Aug 2019 – May 2023

## Experience

### Nokia Solutions & Networks – Finland

Aug 2025 – Present

R&D Trainee (Python/React/GCP)

- Developing multi-agentic systems and document processing pipelines (Python, React, GCP, Vertex AI); creating data corpora for RAG systems to improve information retrieval accuracy
- Building LLM-powered tools automating 40% of manual data processing workflows for the 4LS team

### Aalto University – Finland

Aug 2024 – Present

Teaching Assistant (Python/Docker/Kubernetes)

- Supporting 5 Master-level courses (>300 students); developed autograders reducing grading time by 60%
- Maintaining containerized lab environments with high uptime for daily student submissions

### Microsec Zrt. – Budapest, Hungary

Jun – Aug 2022

Software Engineer Trainee (Go)

- Developed PKI certificate linter in Go; implemented X.509 extension parsing following RFC5280 standards

### Grinnell College – DASIL – USA

Aug 2022 – May 2023

Research Assistant (R/Python)

- Built multivariate statistical models in R/Python for [Stat2Labs](#), used by 1000+ students across 5 institutions

### Grinnell College – CS Dept. – USA

Aug 2021 – Dec 2022

Peer Educator (Java/C)

- Hosted weekly mentor sessions for 100+ students; provided coding challenges and Q&A on course materials

## Projects

### Complex Event Processing with Load Shedding (Python)

2025

- Implemented state-based load shedding with O(1) hash table retrieval and feedback controller for latency optimization

### GraphRAG with LRU Caching (Python/Kuzu)

2025

- Enhanced GraphRAG pipeline achieving 60-90% memory savings with Text2Cypher and iterative query refinement

### LLM Cost Analysis and Optimization (Python/GCP/Vertex AI)

2025

- Analyzed LLM inference costs; developed benchmarking suite comparing model configurations on Vertex AI

### ICS Network Security in IIoT (Seminar Paper)

2025

- Analyzed Purdue model, Zero-trust Architecture, and micro-segmentation for Industrial Control Systems security

## Skills

**Languages:** Python, C/C++, CUDA, Java, Go, R, JavaScript/TypeScript, SQL

**ML/Systems:** PyTorch, scikit-learn, NumPy, pandas, Docker, Kubernetes, GCP, Vertex AI