

Anh Dao

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Education

M.Sc. in Computer Science
GPA: 4.25/5.00

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
R&D Trainee

Aug 2025 – Present

- Building LLM-powered internal tools; developing RAG agents with Vertex AI for workflow automation

Aalto University – Finland

Aug 2024 – Present

Teaching Assistant – Computer Science Department

- Supporting 5 Master-level courses; developing autograders and containerized lab environments (Docker/Kubernetes)

Microsec Zrt. – Budapest, Hungary
Software Engineer Trainee

Jun – Aug 2022

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

Grinnell College – DASIL – USA

Aug 2022 – May 2023

Research Assistant

- 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

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

Projects

DiffDock: Diffusion Models for Molecular Docking (Python/PyTorch) 2025

- Reproduced diffusion generative model for molecular docking on manifold $\mathcal{M} = \mathbb{R}^3 \times SO(3) \times \mathbb{T}^m$
- Analyzed IGSO(3) rotational diffusion and SE(3)-equivariant architectures; achieved 38.2% Top-1 success rate

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

CUDA Sudoku Solver (C/CUDA) 2021

- GPU-parallelized solver processing 100+ boards simultaneously using constraint propagation and backtracking

Skills

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

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