

Anh Dao

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EXPERIENCE

Smartly – Software Engineer

Feb 2026 – Present

- Working on the Agentic Orchestration team for Smartly's core initiative [Synapse](#)
- Building Smartly's **Pydantic AI**-based agentic orchestration harness and Smartly's core MCP servers
- Prototyped the company's 1st external MCP interface and **TypeScript**-based MCP servers, creating general guidelines for good tool design and MCP implementation
- Assisted in the 2-person migration of the company's Frontend monorepo of 4 million lines of TypeScript from **Jest** to **Vitest** and 4 more repos from Jest/ESLint/Prettier to Vitest/Oxlint/Oxfmt solo
- Optimized 2 existing LLM-based services through **LangFuse** trace monitoring and evals-based prompt optimization, reducing the cost of inference by 2.5x without loss of performance
- Part of the company's AI Productivity Frontier group, delivering Knowledge Sharing sessions to 200+ R&D employees

Musixmatch – Research Assistant

Feb 2026 – Aug 2026

- Built an ETL data pipeline in Python to exhaustively collect, clean, and deduplicate over 4 million tracks' lyrics across languages and genres
- Ran batch LLM annotation on 15,000+ Finnish tracks, cleaning up malformed LLM outputs into structured data
- Replicated and extended Professor Eric Malmi's research on Finnish Rhyme analysis [Blog](#)

Nokia Solutions & Networks – R&D Trainee

Aug 2025 – Jan 2026

- Synced 100,000+ documents across internal Nokia Sources on Vertex AI for RAG-based product queries
- Built LLM-based internal tools for logs processing and analysis, reducing the incident triage time by ~40%

Aalto University – Teaching Assistant & Master's Thesis Worker

Aug 2024 – Jul 2026

- Assisted in core Master's-level Security courses, totalling over 500 students, by holding office hours, designing network security assignments, and creating tools for fast grading
- Thesis: gradient attacks and a confidence-triggered fallback defense for VR cybersickness LSTM classifiers

PROJECTS

Assorted Agentic Systems Projects

2026 – Present

- Participating in Teleport Coding [Challenge](#), porting NetHack 5.0, a roguelike game with 500,000 lines of C and Lua code to JavaScript with byte-exact behavior
- Designing guardrails for multi-agent orchestration, multi-turn evals framework to prevent common pitfalls with independent long-horizon agents like reward hacking, challenge bypass and goal misalignment
- Building a personal assistant on Cloudflare Durable Objects with Pi agent harness and OptChat-based memory: a context management system based on a summary tree of your entire chat history

Scalable Agentic Systems Evaluation

Jan – Apr 2026

- Benchmarked 300 software engineering tasks (SWE-Bench Lite) across 3 different harnesses and 6 open weight models, deployed on CSC's LUMI supercomputers with **SLURM** and **ROCm**
- Profiled evals results, fixing incompatibilities with LUMI's **Singularity**-based Containers, models' malformed reasoning, and erroneous tool usage

EDUCATION

M.Sc. (Tech.) in Computer Science, Aalto University (GPA 4.09/5.00, ML minor)

Aug 2024 – Jul 2026

B.A. in Computer Science, Grinnell College (GPA 3.76/4.00)

Aug 2019 – May 2023

SKILLS

Languages: TypeScript, Python, SQL, C/C++, R

Frameworks & Libraries: Node.js, React, Jotai, Pydantic AI, MCP, PyTorch, vLLM, MLX

Tools & Platforms: PostgreSQL, Redis, Kafka, BullMQ, Kubernetes, AWS/GCP, LangFuse, Grafana, Playwright