Science - Technology - Engineering | Imagination - Intuition - Design | Empathy - Discipline - Leadership |

As a person, I am driven by my desire to create. I love nothing more than to concentrate on a project, striving to make it the best it can be. The only thing better is to do the same with other like minded people.

INTERESTS

- Agent-to-Agent Communication
- Agent Memory
- Distributed Systems
- Human-centered Design
- Teamwork and Leadership
- Music
- Writing

TECHNICAL SKILLS

- Fullstack Development
- OpenAI, AzureOpenAi, LitelLLM
- LangChain, CrewAI etc.
- Python
- Docker
- SQL, MongoDB, Redis
- Linux
- More...

ACADEMIC ACHIEVEMENTS

Master's Thesis Grade: 5

Bachelor's Thesis Grade: 5

Mean grade of bachelor studies: 4,17

Mean grade of master studies: 4,87

LANGUAGES

Swedish: Mother tongue

English: Fluent

Finnish: Fluent

CONTACT

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Github: Alwengel

Homepage: alex-engelhardt.com

LinkedIn | Github | Homepage

Alexander Engelhardt

Earth, Technology, Arts

MY JOURNEY

My journey to doing a PhD in Computer Science started with a passion for creating my own digital products. I have always loved creative arts and computer science gives the tools that bring endless opportunities. This CV focuses on computer science, but check out my personal homepage for more context about my artistic work.

EXPERIENCE

AgentFormers, PhD in Computer Science, 2025
Business Finland, University of Helsinki 2025->
My PhD focuses on using LLM-based Agents and workflows for intelligent communication between Agents in distributed environments.

Neural Publish-Subscribe for 6G, Master's Thesis, 2024-2025
Business Finland, University of Helsinki 2024-2025
My Master's thesis developed an intelligent communication model in the Pub-Sub paradigm, earning the highest grade. An article based on it has been submitted to an IEEE magazine, and detailed results are being prepared for the ACM/IEEE Symposium on Edge Computing.

Innotin - LLM-based Innovation Service, 2024
Toska Software Engineering Group
While at the Software Engineering Group Toska, I developed "Innotin," an LLM-based service that helps researchers evaluate the business and patent potential of their ideas. It is currently in production.

MammalBase: Project Coordinator, 2023
University of Helsinki & The Finnish Museum of Natural History

Berry Picker Tracker Mobile App: Software Engineer, Artist
University Of Helsinki

Teacher, 2018-2020
Granhult, Lagstad, Rödskog
It remains one of my most valuable management experiences — if you can engage and manage 25 children, you can manage anything.

EDUCATION

PhD in Compuer Science
University of Helsinki (2025)
I am currently pursuing a PhD in Computer Science in the R2B project AgentFormers where we aim to build an Agentic Platform for Enterprise with focus on customization, privacy, and price.

Master's Degree in Computer Science
University of Helsinki (2024-2025)
I finished my Master's studies with a mean grade of 4,87/5 and the highest grade possible in the Master's thesis itself which was used as a ground for several patents as well as a topic for further research in my PhD.

Bachelor's Degree in Computer Science
University of Helsinki (2021-2023)
I finished by bachelor's studies with a mean grade of 4.17 and the best grade of 5 in my bachelor's thesis.

Minor in Geography
University of Helsinki (2020-2021)
Originally, I studied geography which remains my minor with over 60 credits. My coursework included physical and cultural geography, urban planning, and GIS. There is no discipline as interdisciplinary as geography which I love.