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Linus Jern

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Education

Espoo, Finland	**Aalto University**	**Fall 2023 – Spring 2025**

- M.Sc in Computer Science. Minor in Machine Learning, Data Science and Artificial Intelligence.
- Coursework: Principles of Algorithmic Techniques, Reinforcement Learning, Declarative Programming.

Espoo, Finland	**Aalto University**	**Fall 2020 – Spring 2023**

- B.Sc in Computer Science, Deans list. GPA: 4.79/5.00.
- Coursework: Programming Parallel Computers; Operating Systems; Databases; Data Structures and Algorithms.
- Bachelor's thesis on "Distributed consensus by population protocols".

Singapore, Singapore	**Nanyang Technological University**	**Spring 2024 – Spring 2024**

- Exchange Studies.
- Studies in Deep Learning and Philosophy.

Employment

Software Engineer, Intern	**Smartly, Helsinki**	**May 2023 – Nov 2023**

- Worked on cross-platform ad-tech optimization infrastructure supporting: campaign budget allocation, revenue estimation using bayesian modelling, and ad rotation.
- Implemented a feature in a core optimization service that recognizes and disables long-running and irrelevant events during event consumption, reducing computational, network, and database load.

Software Engineer	**Droppe, Helsinki**	**September 2022 – May 2023**

- Designed and built Droppe's data analytics platform using Fivetran, BigQuery and dbt.
- Contributed to the backend. Built CI/CD, translation batch jobs, improved logging etc.

Software Engineer, Intern	**Microsoft, Tromsø**	**June 2022 – August 2022**

- Converted an in-memory property graph engine to work across distributed memory, enabling horizontal scalability.
- Planned and led the project. On-boarded 3 other interns to the project.
- Part of the Experiences & Devices group working on search infrastructure for O365.

Product Management, Trainee	**Nokia, Espoo**	**May 2021 – September 2021**

- Visualization and combination of massive data from several business-critical data sources.
- Creating data pipelines for analytical data, using Python, Azure, M-Query.

Project Assistant	**Bitville, Espoo**	**July 2020 – December 2020**

- Automated a data migration process for a major client (in Python) and saved hundreds of hours of manual work.

Teaching Assistant	**Aalto University**	**September 2021 – December 2022**

- Courses: Data Structures and Algorithms, Programming I & II, Programming Studio 1.
- Held exercise sessions and gave personal feedback to students.

Languages and Technologies

- **Proficient with:** Python; Scala; Typescript; Javascript; PostgreSQL; Linux; Git; Node; React; Docker Kubernetes
- **Experience with:** Rust, C#, C++, C, GraphQL, MongoDB, RabbitMQ, dbt

Additional Experience

National Team - Road cycling	**2017 - 2018**

- Competed in international races (Belgium, France, South Korea...) with the Finnish Junior Road Cycling National Team 2017 - 2018.

Winner of Main Prize	**BCG Platinion Hackathon**	**2023**

- In under 30 hours, my team built a smart travel planner that leveraged LLMs to generate unique travel plans while using our own emission and cost estimation algorithms.