



Jan Härkönen

Personal info

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Employment history

- Oct 2025 - **Senior Software Developer, Taito United Oy**, Espoo, Finland.
- Present
- Developed Finnish product data management web app using Typescript, Javascript, HTML, CSS and React for a software modernization project on a GCP environment.
 - Implemented new product data model for using GraphQL APIs with Node.js and PostgreSQL to comply with Swedish product data requirements.
 - Deployed new software versions using Github, CI/CD, GitHub Actions, Docker and Kubernetes.
 - Collaborated in an 8 person developer team using Git and GitHub, participated in weekly meetings and sprint planning sessions, had monthly meetings with clients.
- Oct 2024 - **CEO / Senior Software Developer, Pion Blanc Oy**, Helsinki, Finland.
- Oct 2025
- Developed product data synchronization and offer generation web app using Typescript, Javascript, HTML, CSS and React to speed up the sales pipeline.
 - Implemented REST APIs using Python (Flask), PostgreSQL and Go to provide up-to-date product information.
 - Deployed on self configured Linux server (Hetzner) using Docker and CI/CD pipelines on GitHub.
 - Collaborated in 3 person team using Git.
 - Participated in monthly meetings with clients.
 - Project 2: Developed an AI-powered search engine using Typescript, Javascript, HTML, CSS, React and Tanstack Start for Finnish travel destinations to discover hidden gems for travellers.
 - Implemented AI-search and data validation using Python, Node.js, PostgreSQL.
 - Added authorization using Typescript and BetterAuth.
 - Owned the deployment infra and CI/CD pipeline using Docker, GitHub Actions and Railway.
 - Built a AI chat bot to search travel destinations using RAG-pipeline in a 2 person team.
 - Participated in monthly meetings with clients.

- Jan 2021 - **Software Developer**, *Polycon Oy*, Leppävaara, Finland.
- Oct 2024
- Developing a Windows desktop app for handling mobility aid items for Finnish hospital districts using Delphi and Microsoft SQL server.
 - Collaborated in a 10 person developer team using Git and GitLab, participated daily meeting as well as retrospectives and sprint planning sessions with the Agile/Scrum methodology.
 - Acted as an on-call engineer talking with client reporting bugs and other issues.
- Feb-Sep 2020 **Software Developer / Data Analyst**, *Semantum Oy*, Otaniemi, Finland.
- Developing LCA dashboard for assessing environmental impact of factory processes using Java, InfluxDB and Docker.
- Jun-Nov 2019 **Research assistant**, *Aalto-university, Department of Applied Physics, Antimatter and Nuclear Engineering group*, Otaniemi, Finland.
- Simulating and calculating the annihilating electron-positron pair momentum density in a solid in the atomic scale with quantum Monte Carlo methods using HPC computing with CSC supercomputers and Fortran for parallel computing.
 - Wrote my master's thesis.
- Summer 2018 **Research assistant**, *Aalto-university, Department of Applied Physics, Antimatter and Nuclear Engineering group*, Otaniemi, Finland.
- Simulating and calculating the enhancement factor in a semiconductor in the atomic scale with quantum Monte Carlo methods using HPC computing with CSC supercomputers and Fortran for parallel computing.
 - Wrote a special assignment thesis.
- Summer 2017 **Research assistant**, *Aalto-university, Department of Mathematics and Systems analysis*, Otaniemi, Finland.
- Wrote bachelor's thesis on the spherical maximal function.
- Summer 2016 **Trainee**, *CERN, Helsinki Institute of Physics, CMS Phase 1 Pixel Upgrade*, Meyrin, Switzerland.
- CMS silicon pixel detector module testing
 - Design of beam telescope for modules.
- Summer 2015 **Trainee**, *Netel Oy, Lemcon Networks Nordic*, Järfälla, Sweden.
- In charge of tracking progress for mobile phone network project.
 - Created a telecom network database
 - Executed material delivery and logistics for telecom network sites.

Education

- 2018-2020 **Master's degree**, *Aalto University, School of Science*, Otaniemi, Finland.
- Major: mathematics, minor: engineering physics
- 2016-2017 **Exchange studies**, *Korea Advanced Institute of Science and Technology (KAIST), School of Computing*, Daejeon, Korea.
- School of computing.
- 2014-2018 **Bachelor's degree**, *Aalto-university, School of Science*, Otaniemi, Finland.
- Major: engineering physics and mathematics, minor: electronics and electrical engineering, computer science
- 2013-2014 **Compulsory military service**, *Signals Regiment*, Riihimäki, Finland.
- Reserve officer, rank Second lieutenant

Positions of trust

- 2021-2024 Polytech Choir (board member) - Treasurer 21-22 - President 23-24
- 2019 Guild of Physics (board member) - International Captain

Programming skills

Frontend	Typescript, HTML, CSS, Javascript, Delphi
Backend	Go, Python, SQL, Java, Lua, Fortran
Frameworks	React, Next.js, Tanstack Start, Svelte, Vue
Databases	PostgreSQL, SQLite, Convex, Redis, MSSQL
Tools	Node.js, Bun, npm, pnpm, Docker, Linux, Bash, LaTeX, Git, Github Actions
Cloud	AWS, Azure, GCP, Hetzner
Data analysis	Pandas, Numpy, Matplotlib, Matlab, R
AI	Agentic coding, LLMs, RAG

Languages

English	Excellent
Finnish	Native
French	Native
Swedish	Good
Portuguese	Basics

Hobbies

- Choir, swimming, martial arts, badminton, chess