



Jan Härkönen

Personal info

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Employment history

- Oct 2024 - **CEO / Senior Software Developer**, *Pion Blanc Oy*, Helsinki, Finland.
present Product data synchronization and automatic offer generation solution as a web app.
- Jan 2021 - **Software Developer**, *Polycon Oy*, Leppävaara, Finland.
Oct 2024 Developing and maintaining software and databases for handling mobility aid items for Finnish hospital districts.
- Feb-Sep 2020 **Software Developer / Data Analyst**, *Semantum Oy*, Otaniemi, Finland.
Developing LCA dashboard for assessing environmental impact of factory processes.
- 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 using quantum Monte Carlo methods (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 using quantum Monte Carlo methods.
- Summer 2017 **Research assistant**, *Aalto-university, Department of Mathematics and Systems analysis*, Otaniemi, Finland.
Writing 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.
Mobile phone network project progress tracking, creation of telecom network database, material delivery/logistics

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.
- 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

- Languages Go, Python, Typescript, Javascript, Delphi, SQL, Java, Lua, Fortran
Frameworks React, Next.js, Svelte, Vue
Databases PostgreSQL, SQLite, Redis, MSSQL
Tools Node.js, Bun, Docker, Linux, Bash, LaTeX, Git, Github Actions
Cloud AWS, Azure, Hetzner
Data analysis Pandas, Numpy, Matplotlib, Matlab, R

Languages

- English **Excellent**
Finnish **Mother tongue**
French **Mother tongue**
Swedish **Good**
Portuguese **Basics**

Hobbies

- Choir, swimming, badminton, chess