Jan Härkönen

Curriculum vitae 2.10.2024

Personal info

Full name	<u>Jan</u> Robert Härkönen
Address	Hyväntoivonkatu 8 A 20, 00220 Helsinki, Finland
Date of birth	26.03.1994
E-mail	jan.harkonen@gmail.com
Phone	+358 50 46 46 745
Website	janharkonen.fi

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

Employment history

Jan 2021 - present   **Software Developer**, *Polycon Oy*, Leppävaara, Finland.
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

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	Python, Delphi, SQL, Java, Fortran, Typescript
Tools	React, LaTeX, Git, MS office
Data analysis	Matlab, R, Pandas, Numpy

Languages

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

Hobbies

- Choir, swimming, badminton, chess