

DANIEL HOLMBERG

Data Science Student

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EXPERIENCE

Helper

CodeRefinery

May 2020 – present Online

- Advancing research software development FAIRness (findability, accessibility, interoperability, and reusability) through CodeRefinery, a project within the Nordic e-Infrastructure Collaboration (NeIC)
- Participant of the June 2020 CodeRefinery instructor training in collaboration with Delft University of Technology
- Helper at the first online mega-CodeRefinery workshop, coderefinery.github.io/2020-05-25-online/#helpers

Developer

Fjuul Vision Oy

March 2020 – present Sofia Future Farm

- Part-time programmer for a fitness-tech company
- Learning software development best-practices
- Working in the cloud with Node.js and Google Cloud Platform

Technical Writer

Towards Data Science

October 2019 – present Freelance

- Occasionally writing blog posts on data science topics

Research Assistant

University of Helsinki

May – June 2018, May – August 2019 Helsinki Accelerator Laboratory

- Assisted Dr. Antti Kuronen and Dr. Pekko Kuopanportti on the project Atomistic modeling of kinetics on surfaces and interfaces of iron-chromium alloys (AMKSIA) where I tested new interatomic potentials for the alloys using molecular dynamics simulations

Teaching Assistant

University of Helsinki

March – May 2018, 2019, 2020 University of Helsinki

- Helped students with their homework in the bachelor's course on special theory of relativity

EDUCATION

M.Sc. Data Science

University of Helsinki

2019 – present

B.Sc. Physics

University of Helsinki

2016 – 2019

- Thesis title: Interatomic Potentials for Simulating Fe-Cr
- GPA: 4.3/5

Matriculation Examination

Ekenäs Gymnasium

2013 – 2016

- Laudatur, top 5%: Chemistry, English, History

ORGANIZATIONS

Writer, Social Media Manager

Spektrum rf

2019 – 2020

- Writer for our student paper
- Keeping members up to date on social media

Sports Official

Spektrum rf

2019

- Organized bi-weekly student sports events

Vice-Chairman

Nyland Brigade Conscript Committee

2018

- Responsible for questions related to studying, arranged working life events and a study fair with universities and polytechnics

SKILLS

Python R Git Jupyter JavaScript
Docker Bash MATLAB Fortran
Data Analysis Technical Writing

EXPERIENCE

Tutor

Uplus Yksityisopetus Oy

📅 January 2017 – May 2018

📍 Helsinki

- Private teaching in mathematics, physics and chemistry in the Helsinki region

Substitute Teacher

Ekenäs Gymnasium

📅 October 2016

📍 Raasepori

- Taught mathematics and physics to high schoolers

Summer Staff

Premarin Oy

📅 2012 – 2017

📍 Raasepori

- Outdoor work consisting mostly of facility management and caring for boats

PROJECTS

Atmospheric Aerosol Modeling

Data science with INAR

- A couple of fellow data science students and me predicted aerosol concentrations with the University of Helsinki Institute for Atmospheric and Earth System Research (INAR) using different machine learning algorithms.

🔗 github.com/deinal/aerosol-modeling

</> Jupyter, Python, R

Infinite AI

Demola Global student project

- We as a team of students from China and Finland addressed the AI control problem in co-operation with Demola Global. Our findings are published on the webpage below.

🔗 aisafety.netlify.app

</> HTML, CSS

Kodanka

Teach programming in Swedish

- Started a project to teach programming in Swedish with a group of friends (a work in progress)
- Open source and licensed under Creative Commons Attribution-NonCommercial-ShareAlike

🔗 kodanka.fi

</> Jupyter, reStructuredText, Python

SCHOLARSHIPS

- HU Study Grant, J. Pippingsköld and F. J. Wiik fund, 1000€, 2020
- HU Study Grant, W. Brenner and R. Donner fund, 800€, 2019
- Scholarship from the Swedish Cultural Foundation, 600€, 2019
- Scholarship from Sophie von Julin's foundation, 1000€, 2019
- HU Study Grant "to undergraduate students of mathematics and natural sciences whose academic performance has been excellent", 1000€, 2018

LANGUAGES

Swedish



English



Finnish



German



CODE

Discord Bot

Adding features to an online forum

- Automating and adding features to a Discord server using a bot running in the cloud

🔗 spektrumrf.github.io/bot

</> Python

Lyrics Generator

Data science intro project

- Generates random lyrics based on Spotify global top 200 songs
- Uses a recurrent neural network Python library working on top of Keras/TensorFlow

🔗 lyrics-gen.herokuapp.com

</> Python, HTML, CSS

Mobile Apps

Android applications for my student association

- I created an app for my student association to fetch the university lunch menu and as a handy way to reach our songbook on occasion

🔗 play.google.com/store/apps/developer?id=deinal

</> React Native, Google Firebase, Java

Integer Recognition

Scientific computing coursework

- Implemented singular value decomposition for recognizing images of integers

🔗 github.com/deinal/svd-pattern-recognition

</> MATLAB

HOBBIES

- Played forward in Spektrum FC, Unisport Futsal Series 2019-2020
- Ran as anchor in the Jukola Orienteering Relay 2019
- Ran Helsinki Half Marathon 2019