DANIEL HOLMBERG

Data Science Student

@ daniel.holmberg@helsinki.fi danielholmberg.me

+358 40 5384 784 github.com/deinal

Pihlajatie 44 B 65, 00270 Helsinki medium.com/@deinal

in linkedin.com/in/holmberg-daniel



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 sciency topics

Research Assistant

University of Helsinki

• 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

Matriculation Examination

Ekenäs Gymnasium

2013 - 2016

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

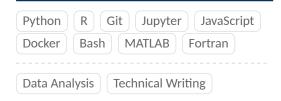
Vice-Chairman

Nyland Brigade Conscript Committee

2018

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

SKILLS



EXPERIENCE

Tutor

Uplus Yksityisopetus Oy

mary 2017 - May 2018

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

Substitute Teacher

Ekenäs Gymnasium

Cotober 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

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Infinite Al

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

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Jupyter, reStructuredText, Python

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 module 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
- In addition to that I made a soundboard with no practical purpose whatsoever

• 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

sithub.com/deinal/svd-pattern-recognition /> MATLAB