

Emil Johansson

SOFTWARE DEVELOPER

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"Do not be smart when writing code, write boring code creating exiting products."

Summary

Educated as a Physicist, employed as an embedded systems software developer consultant, currently working with Python, Scala, and Typescript as a Backend Software Engineer. In my previous assignment I worked in Linux and C/C++ on network segmentation solutions for critical infrastructure with the IT security company Advenica.

In my spare time, I like to go hiking, read interesting articles and tutorials, work on private programming projects, and tinker with computers. I have a raspberry pi running a bunch of services like media server, git repositories, and file hosting. Many of my skills originate from learning in my spare time. My natural habitat is in Linux creating exiting things with C/C++ and Python.

Recently I have grown more and more interested in concepts like continuous integration. This CV is for example built automatically using docker in a GitHub action and then if successfully built, published to <https://cv.emijoh.se/resume.pdf>.

Skills

Programming	Python, Linux, Scala, Continuous Integration, TypeScript, C/C++, LaTeX, git
Machine Learning	TensorFlow, Keras, Google Cloud
Languages	Swedish, English

Experience

Backend Software Engineer

Malmö, Sweden

UNDISCLOSED

Feb. 2018 - present

- Working with Python, Scala, and TypeScript.
- Taking a technical leadership role in the team driving code quality and increased developer productivity and quality of deliverables.
- Learned a lot about producing and releasing high quality software at fast pace in an environment with many stakeholders and unknowns.

Embedded Systems Software Engineer.

Malmö, Sweden

ADVENICA

Sep. 2018 - Dec. 2018

- Levering Linux and C/C++ knowledge, developing support for new network protocols in network segmentation products for critical infrastructure.
- Improved ability to write performant, safe, high quality C/C++ code under tight deadlines.

Full Stack Web Application

Lund, Sweden

PRIVATE PROJECT

Mar. 2017

- Created a proof-of-concept "Wikipedia band name generator" web site leveraging public APIs, python code, cloud hosting, and flask to automatically generate silly band names and cover art.

IOS and Desktop QT Application

Lund, Sweden

PRIVATE PROJECT

Sep. 2016

- My interest in automation resulted in that creating a Sudoku solver app seems more fun than solving Sudoku manually so that is what I did.
- Learned about connecting and separating back end and front end logic as well as the QT framework

Employment

AFRY (Formerly ÅF) – Embedded Systems

SOFTWARE DEVELOPER

Malmö, Sweden

Sep. 2018 – Present

Lund University, Faculty of Engineering

PROJECT ASSISTANT

Lund, Sweden

Jun. 2018 – Aug. 2018

Lund University, Faculty of Engineering

EXERCISE TUTOR

Lund, Sweden

Sep. 2017 – Nov. 2017

Education

Lund University

M.SC IN PHYSICS

Focus on theoretical and mathematical physics.

Lund, Sweden

Sep. 2016 – Jun. 2018

Lund University

B.SC IN PHYSICS

Focus on computational and mathematical physics.

Lund, Sweden

Sep. 2013 – Jun. 2016

Honors & Awards

2018 **NanoLund Junior Scientist Ideas Award**, For M.Sc project exploring novel applications of machine learning.

NanoLund

2013 **Swedish Junior Water Prize.**, Award for high school degree project.

*Stockholm
International Water
Institute.*

Writing

Teaching a Neural Network Quantum Mechanics. A Deep Learning Approach to the N-Representability Problem.

AUTHOR

<https://lup.lub.lu.se/student-papers/search/publication/8951887>

M.Sc thesis.

2018

Numerical simulations of contact geometry effects on transport properties of semiconductor nanowires

AUTHOR

<https://lup.lub.lu.se/student-papers/search/publication/8878322>

B.Sc thesis.

2016