Emil Johansson

Software Developer

Bredgata 24D, 222 21, Lund, Sweden

(+47)73 625 15 09 | emil.sweden@gmail.com | emijoh.se | emiljoha | emiljoha

"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, 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 habitate 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 exampled automatically built using docker in a GitHub action and then if successfully built, published to `https://cv.emijoh.se`.

Skills

Programming	Python, Linux, Scala, Continious 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 enviroment with many stakeholders and unknowns.

Embedded Systems Sofware 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 perfomant, 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 levering 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 a front end logic as well as the QT framework

Employment

AFRY (Formerly ÅF) – Embedded Systems — *Malmö, Sweden*

Software Developer — *Sep. 2018 – Present*

Lund University, Faculty of Engineering — *Lund, Sweden*

Project Assistant — *Jun. 2018 – Aug. 2018*

Lund University, Faculty of Engineering — *Lund, Sweden*

Exercise Tutor — *Sep. 2017 – Nov. 2017*

Education

Lund University — *Lund, Sweden*

M.Sc in Physics — *Sep. 2016 - Jun. 2018*

Focus on theoretical and mathematical physics.

Lund University — *Lund, Sweden*

B.Sc in Physics — *Sep. 2013 - Jun. 2016*

Focus on computational and mathematical physics.

Honors & Awards

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

2013 **Swedish Junior Water Price.**, 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. — *M.Sc thesis.*

Author — *2018*

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

Numerical simulations of contact geometry effects on transport properties of semiconductor nanowires — *B.Sc thesis.*

Author — *2016*

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