

# Emil Johansson

SOFTWARE DEVELOPER

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

## Summary

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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 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>.

## Skills

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

## Experience

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### 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.

## Employment

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### 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

## Education

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### 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

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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

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### 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>