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## Experience

## Software Engineer

Nexure Aug 2021 – present Stockholm, Sweden Working with backend development for payment solutions.

Keywords: Kotlin, backend, SQL, Spring Boot, AWS, Kubernetes, microservices, Docker, CI/CD

# Machine Learning/Software Engineer

Saab

Oct 2020 – Aug 2021 10 months Stockholm, Sweden

Worked on a cloud application for the surveillance and intelligence domain. Developed deep learning models for multi-modal sequence predictions. I also did a lot of backend engineering and data mining.

Keywords: Python, Kubernetes, Helm, Deep Learning, data mining, microservices, Kafka, Docker, CI/CD

## **Machine Learning Engineer**

#### Saab

Aug 2018 – Oct 2020 2 years and 2 months Stockholm, Sweden

Researched potential use cases for machine learning within the electronic warfare domain. I also developed simulation software for complex signal environments. This simulator allowed the entire research team to investigate new ideas quicker.

Keywords: Python, VHDL, PyToch, Digital Signal Processing

## Education

# KTH Royal Institute of Technology

Master of Science in Electrical Engineering

2013 - 2018

Undergraduate and graduate course within electrical engineering.

## Imperial College London

Electrical and Electronic Engineering 2016 - 2017

Exchange year during my M.Sc.

### Personal Projects

#### **Text Recognizer**

Ongoing

Reimplemented the Full Stack Deep Learning course with best practices in Python. I started this project to develop the best structure for PyTorch projects. But now it keeps me motivated to experiment with new architectures and read up on the latest research developments, e.g. self supervised learning, vision transformers, multi-modal models.

Keywords: PyTorch, PyTorch Lightning, Hydra, Nox, Poetry, Pyenv, Python

# **Trading Robot**

Ongoing

Started working on a event-driven trading robot. Most of my current work has been in data mining, reading literature, and building the infrastructure.

Keywords: Kubernetes, Kafka, Event-Based Design, Docker

# Technical Skills

Programming Haskell – Familiar All I want to do is to write Haskell. Rust – Familiar I like Rust.

Scripting

Python - Fluent Used it for almost a decade. shell - Intermediate Go to options for small tasks. lua – Familiar I use it to configure my nvim config.

Markup

I<sup>A</sup>T<sub>E</sub>X− Fluent Mastered it while studying to become an electrical engineer. HTML – Familiar

Working knowledge, use it for my personal website.

Databases & Message Brokers

NoSQL – Intermediate Used both at home and at work. SQL - Intermediate Used both at home and at work. Kafka – Intermediate Used both at home and at work.

Machine Learning Frameworks

PyTorch - Proficient Used extensively for +5 years.

PyTorch Lightning - Proficient Used with PyTorch for +2 years.

#### Miscellaneous

Git - Proficient I host my own git server, I have used git for +7 years.

Kubernetes - Experianced I have worked with Kubernetes since 2019, self-hosted and at cloud provider.

Containers – Proficient I have in depth knowledge of the concept. I work with Docker daily, and I enjoy building the most efficient Dockerfiles possible, e.g. multi-stage builds.

Service Mesh – Familiar Used extensively at work and at home.

CI/CD pipelines - Proficient

Experiance with Tekton, CircleCI, github actions.

Architecture I adhere by the unix and suckless philosophy. The book *Tao of Microservices* changed my life. I will use those principles as long as I have to develop such systems.

**Operating Systems** I use Artix Linux and soon Nix OS.

### General Skills

Languages

• Swedish - native • English – C2