



## Kim Hermansson

7+ Years Python Backend Engineer, Skilled in Rust, C/C++ and Docker

Fluent in Swedish, English, and various machine languages.

Munich, Germany

**I'm a backend developer** with a passion for building useful tools and products, and more than 7 years of experience, mostly as a consultant. I have a strong love for **Python and Rust**. I have also been known to wield a plethora of other languages, including **C#, C, and C++**.

### My strongest skills and how I learned them

My strongest skill is writing **high quality Python**. My fastest *growing* skill is **Rust**. My best cross-language skill is **software architecture and design**. I thrive in well formed architectures and I believe that **refactoring early and often** is an important part of creating high quality software.

### What I am looking for

I want to make truly useful products and tools that boost productivity for people. I also want to hone my skills in Rust and find possible ways to combine Rust and Python.

### One fact (outside of work) about me

For as long as I can remember, I've been pulling things apart and putting them back together again, just to see how they work. This has taught me that **data and its structure dominates**; once you've chosen the right structure, the algorithms will follow naturally.

### Additional information

I am a driven developer who believes in automation, code reuse, and that I always have something to learn from my peers. I also believe machines have something to learn from our data, making machine learning and artificial intelligence very interesting fields to me.

I find making hardware really fun. It's something of a hobby of mine, but exposing myself to **embedded programming** it has proven to be useful professionally as well, when I could replace missing hardware required to communicate with experimental new technology.

# Work experience

## Senior Software Engineer

at Adnymics GmbH

January 2019 - ongoing

I write and maintain system critical software for a company that deals heavily with **both software and hardware**. Both servers and software are **distributed across Europe**, and in the **cloud**. Because of this, there's a very high focus on **reliability** and **logging**. The software solution is highly customizable, so in case something goes wrong, it is important for us to provide highly detailed **postmortems**.

I also work with the **enormous amounts of data** produced in our solutions, breaking it down into human readable formats by employing techniques like **eventual consistency** and **functional programming**.

The main languages are **Python, Bash, and Scala**, and I have been working to introduce **Rust** into the mix with **great success**.

Rust Python Scala Bash Linux Debian Ubuntu AWS EC2 Postgres CLion Pycharm JetBrains Cloud Functional Programming Docker Scrum Agile Spark Eventual consistency Kafka RabbitMQ SQS

## IT Consultant, Backend Developer, Systems Developer

at Softhouse Consulting

June 2017 - ongoing

Consulting work for various companies. I focus mainly on back-end work, and my assignments range from real time programming in embedded systems, written in C, C++ and Rust, all the way up to RESTful web servers written in Python, JavaScript, and C#.

A number of my other assignments were performed as a consultant, working for this company.

Python Rust JavaScript C C++ Scrum Agile REST Backend Backend System Functional Programming Linux Docker Virtual Machines Virtualbox

## Backend Developer, Systems Developer

at E.ON

September 2018 - January 2019

I'm part of a small team creating E.ON Navigator, a tool used by other companies to get an overview of their energy consumption. Its main focus is to help companies optimize their energy consumption.

In my role as a backend developer, I have to write and maintain programs that collect and handle billions of pieces of information each month, as well as presenting it to the customer in a meaningful way.

C# .NET Core Visual Studio 2017 Microsoft SQL Server ASP.NET Big Data

## **Embedded Engineer**

at Assa Abloy

November 2017 - September 2018

My main responsibility was to develop communication protocols between an embedded solution and various Android and iOS apps. I had to create hardware proxies in order to bridge otherwise incompatible hardware with each other.

C C++ Linux Electronics Embedded Python Kotlin Async Websocket Javascript

## **Backend Developer, Systems Developer**

at REQS

August 2017 - November 2017

I was on a team creating an application that collects and handles various types of sensor data from IoT devices, as well as creating various graphs and maps for its users. My main focus was on the business logic, and creating APIs for the front-end and database developers.

C# Visual Studio 2017 Microsoft SQL Server Telemetry IoT Python ASP.NET

## **Backend Developer, Systems Developer**

at Pågen AB

September 2013 - August 2017

I worked in small teams porting and developing multiple operation critical systems. I mainly worked with C#.NET, and Python.

C# Python SQL Server JavaScript Linux

## Skill Cloud

Agile AWS C C# C++ Cassandra CLion Docker EC2 Flask Functional Functional Programming Git Haskell JavaScript Jenkins Jira Kotlin Lua Microsoft SQL Server Ms SQL Server MySQL nginx Postgres Pycharm Python REST Rust S3 Scala Scrum Slinkie SQL Sqlite SQS

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## Education

### Foundations of Data Science: Computational Thinking with Python

University of California, Berkeley

2018 - 2018

### Machine Learning

Coursera

2016 - 2016

### Software Engineering

BTH - Blekinge Tekniska Högskola

2010 - 2012

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