Mark Niehues

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github.com/maqnius

Skills

Airflow, CI, CSS, Django, Docker, Git, HTML, Javascript, Linux, Numpy, Pandas, Python, Scipy

Education

Fu Berlin December 2017-August 2020

B.Sc. Computer Science

In the bachelor thesis, advanced algorithms for optimizing travel time of electronic vehicles were theoretically and practically investigated.

Fu Berlin September 2016 - December 2017

M.Sc. Computational Sciences (not finished)

Focus on numerics and data science. Involved usage of Python's scientific libraries as Numpy, Pandas and SciPy.

TU Dresden October 2012 - August 2015

B.Sc. in Physics

The bachelor thesis dealt with the calibration of a so called 'nano indenter'. Involved a lot of data processing in Python.

Gymnasium Remigianum Borken September 1999 - June 2012

A-Levels

Experience

Student Developer July 2019 - now

Carmeq GmbH

Developing a web application with Django to manage a documentation and standardization process of map data using a SQL database. Also analyzing, developing and investigating a routing algorithm for electronic vehicles for my bachelor thesis.
After the thesis, I mainly worked on a more data science focused project and helped improving data processing of a complex REST application that supplies map data.

Student Developer January 2018 - June 2019

Dev Crew Berlin UG

Fullstack development for event webpages with strong focus on (Python) backend. Also creating all kinds of internal tools (web and desktop applications) using Python and Javascript. Further, some administrative tasks eg. managing mail accounts and domains.

Student Assistant September 2016 - December 2017

FU Berlin - Meteorological Institute
Linux System Administration: Taking care of the Linux (Debian) workstations as well as developing some smaller tools to make the admin's life easier.

Internship August 2016 - September 2016

FU Berlin - Meteorological Institute
Compiling simulation software and comparing results with the legacy system.

Student Scientific Assistant December 2014 - December 2015

Fraunhofer IKTS Dresden
Planning, running and evaluating experiments to determine the hardness and other properties of materials on a nano meter scale. Evaluation was done with Python and numerical frameworks as numpy and scipy.

Languages

German (Native)
English (Fluent)
Spanish (Basic)

What else?

Successfull Participation in a Hackathon June 2019

Bundesministerium für Familie, Senioren, Frauen und Jugend
The family ministry hosted a hackathon where new ideas to tackle social issues should be developed. Our group created a concept to improve the open data interface of the ministry to make it more accessible, interesting and useful for scientific and educational usage.

About me

I like calm people's things like reading books (mainly philosophical) and meditation. Despite that, I'm into sports, especially traditional martial arts - I hope, I'll find a Kung Fu school in Bochum!