Nicolas Forstner

Personal Information

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Work Experience

July & August 2020

Atos
Internship - Consulting for data science and artificial intelligence
- Development of a cross-modal teacher-student model to detect humans through walls based on radio signals as part of a project for a large public ministry in Germany (undisclosed).
- I was tasked with developing (1) the data pipeline that transformed the radio signals into a format that was suitable for (2) the convolutional neural network which detects humans and predicts their poses based on (3) a training dataset that was hosted in the Google Cloud (GCP) for convenient and scaleable training.

September 2019

Atos
Internship - Consulting for data science and artificial intelligence
- Development of software that uses machine learning to improve the efficiency of a production line for electrical parts for a globally known producer of machinery and electronics.
- By making heavy use of data preprocessing and hyper-parameter optimization, my approach was able to beat all alternatives and was chosen to be deployed into production.

August & September 2018

Padberg & Partners
Internship - Web development and task automation
- Contributions to the open-source marketing platform *Mautics* and development of scripts to automate migrations from proprietary software to open-source alternatives.

Education

2018-Now

University
MEng (Hons) Computer Science with Artificial Intelligence, bachelor with first-class honours
University of York (Russel Group) | York, North Yorkshire, UK

School
German Abitur with a grade average of 1.6 (1 is best, 6 is worst)

2016-2017	Landheim Ammersee | Schondorf am Ammersee, Bavaria, Germany
2015-2016	Colegio Teresiano de Lagos de Moreno | Lagos de Moreno, Mexico
2011-2015	Landheim Ammersee | Schondorf am Ammersee, Bavaria, Germany
2006-2011	Free Steiner School Landsberg | Landsberg am Lech, Bavaria, Germany

Skills

Software:	Linux, Git, Docker, Docker-Compose, Nginx, PostgreSQL, SSH, Make, Vim, ...
Cloud:	Amazon Web Services (AWS), Google Cloud (GCP), Digital Ocean
Python:	Numpy, Pandas, Scikit-Learn, Tensorflow, Keras, Pytest, SQLAlchemy, Jupyter, OpenCV, Flask, Django, ...
JavaScript:	Node, Webpack, Vue.js, Vuex, Vue Router, Vuetify, Axios, Express, ...
Others:	Java, SQL, C, Bash, LaTeX, Rust[*], Scheme[*], Prolog[*], Haskell[*]

[*] Not on a production level

Languages

GERMAN:	Native
ENGLISH:	Business level
SPANISH:	Good

Interests and Extracurricular Activities

Dev-Ops, continuous integration, game theory, evolutionary algorithms, system design, 3D animation, ultra-marathons, rowing and free diving.