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 the German military, more precisely the *BWI*.
- I was tasked with developing a complex data pipeline involving both traditional statistical methods and modern machine learning models.
- As part of our SCRUM cycle, I was regularly chosen to present our team's work directly to the customer and to manage further communication.

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 in a Siemens factory.
- 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
University of York (Russel Group) | York, North Yorkshire, UK

- I am currently enrolled in the fourth and final year of the degree.
- In each of the three previous years I achieved a grade average equal to the highest mark, i.e. *first class honors*.
- Whilst academia provides an interesting theoretical background, I derive the vast majority of my knowledge and skills from extracurricular studies and projects.

	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

General:	Extremely self reliant,
Data science:	Data visualization, unstructured data, data mining, data pipelines, exploratory data analysis, presentation and communication
Machine learning:	Artificial neural networks, network architectures, hyper-parameter optimization, XGBoost, linear regression, PCA, clustering, feature engineering
Python:	Numpy, Pandas, Scikit-Learn, Tensorflow, Keras, Pytest, Jupyter, SQLAlchemy, OpenCV, Flask, Django
JavaScript:	Node, Webpack, Vue.js, Vuex, Vue Router, Vuetify, Axios, Express
Other languages:	Java, Rust, SQL, C, Bash, Haskell[*], Scheme[*], Prolog[*], LaTeX
Software & DevOps:	Linux, Git, Docker, Docker-Compose, Nginx, PostgreSQL, SSH, Make, Vim
Cloud:	Amazon Web Services (AWS), Google Cloud (GCP), Digital Ocean

[*] Not on a production level

LANGUAGES

GERMAN:	Native
ENGLISH:	Business level
SPANISH:	Good

INTERESTS AND OTHER EXTRACURRICULAR ACTIVITIES

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