

# NICOLAS FORSTNER

## PERSONAL INFORMATION

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## WORK EXPERIENCE

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JULY & AUGUST 2020	ATOS <i>Internship - Consulting for data science and artificial intelligence</i> <ul style="list-style-type: none"><li>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).</li><li>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 scalable training.</li></ul>
SEPTEMBER 2019	ATOS <i>Internship - Consulting for data science and artificial intelligence</i> <ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>
AUGUST & SEPTEMBER 2018	PADBERG & PARTNERS <i>Internship - Web development and task automation</i> <ul style="list-style-type: none"><li>Contributions to the open-source marketing platform <i>Mautics</i> and development of scripts to automate migrations from proprietary software to open-source alternatives.</li></ul>

## EDUCATION

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2018-Now	UNIVERSITY <i>Computer Science with Artificial Intelligence (Master of Engineering)</i> <i>with a grade average of 74% in the second year</i> University of York (Russel Group member)   York, North Yorkshire, UK
2016-2017	SCHOOL <i>German Abitur with a grade average of 1.6 (1 is best, 6 is worst)</i> Landheim Ammersee   Schondorf am Ammersee, Bavaria, Germany
2015-2016	Colegio Teresiano de Lagos de Moreno   Lagos de Moreno, México
2011-2015	Landheim Ammersee   Schondorf am Ammersee, Bavaria, Germany
2006-2011	Free Steiner School Landsberg   Landsberg am Lech, Bavaria, Germany

## SKILLS

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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,  $\text{\LaTeX}$ , Scheme<sup>\*</sup>, Prolog<sup>\*</sup>, Haskell<sup>\*</sup>

<sup>\*</sup> Not on a production level

## LANGUAGES

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GERMAN: Native  
ENGLISH: Business level  
SPANISH: Good

## INTERESTS AND EXTRACURRICULAR ACTIVITIES

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