

# NICOLAS FORSTNER

## PERSONAL INFORMATION

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## EDUCATION

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2018-Now	<div>UNIVERSITY OF YORK (RUSSEL GROUP)</div> <div><i>MEng (Hons) Computer Science with Artificial Intelligence</i></div> <ul style="list-style-type: none"><li>• <i>First class honors</i> in each of the three previous years.</li><li>• Whilst academia provides an interesting theoretical background, I derive the vast majority of my knowledge and skills from extracurricular studies and projects.</li></ul>
2016-2017	<div>SCHOOL</div> <div><i>German Abitur with a grade average of 1.6 (1 is best, 6 is worst)</i></div> <div>Landheim Ammersee   Schondorf am Ammersee, Bavaria, Germany</div>
2015-2016	<div>Colegio Teresiano de Lagos de Moreno   Lagos de Moreno, Mexico</div>
2011-2015	<div>Landheim Ammersee   Schondorf am Ammersee, Bavaria, Germany</div>
2006-2011	<div>Free Steiner School Landsberg   Landsberg am Lech, Bavaria, Germany</div>

## WORK EXPERIENCE

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JULY & AUGUST 2020	<div>ATOS</div> <div><i>Internship - Consulting for data science and artificial intelligence</i></div> <ul style="list-style-type: none"><li>• Detection of humans through walls based on radio signals as part of a project for the German military (i.e. the <i>BWI</i>).</li><li>• I was tasked with developing a cross-modal teacher-student model and a complex data pipeline involving both traditional statistical methods and modern machine learning techniques.</li><li>• 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.</li></ul>
SEPTEMBER 2019	<div>ATOS</div> <div><i>Internship - Consulting for data science and artificial intelligence</i></div> <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 in a Siemens factory.</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	<div>PADBERG &amp; PARTNERS</div> <div><i>Internship - Web development and task automation</i></div> <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>

## SKILLS

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

## LANGUAGES

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ENGLISH: Business level  
GERMAN: Native

## OTHER INTERESTS

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