

NICOLAS FORSTNER

PERSONAL INFORMATION

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EDUCATION

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|-----------|---|
| 2018-2022 | UNIVERSITY OF YORK (RUSSEL GROUP) <i>MEng (Hons) Computer Science with Artificial Intelligence</i> <ul style="list-style-type: none">• First class honors with a first (i.e. best grade) in all four years.• Third year thesis on object tracking using both conventional video and optical flow. |
| 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, Mexico |
| 2011-2015 | Landheim Ammersee — Schondorf am Ammersee, Bavaria, Germany |
| 2006-2011 | Free Steiner School Landsberg — Landsberg am Lech, Bavaria, Germany |

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">• Detection of humans through walls based on radio signals as part of a project for the German military (i.e. the BWI).• 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.• 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 <i>Internship - Consulting for data science and artificial intelligence</i> <ul style="list-style-type: none">• 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 <i>Internship - Web development and task automation</i> <ul style="list-style-type: none">• Contributions to the open-source marketing platform <i>Mautics</i> and development of scripts to automate migrations from proprietary software to open-source alternatives. |

SKILLS

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, \LaTeX

Software & DevOps: Linux, Git, Docker, Docker-Compose, Nginx, PostgreSQL, SSH, Make, Vim

Cloud: Amazon Web Services (AWS), Google Cloud (GCP), Digital Ocean

LANGUAGES

ENGLISH: Business level

GERMAN: Native

OTHER INTERESTS

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