Nicolas Forstner

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Education

2018-2022

University of York (Russel Group)
MEng (Hons) Computer Science with Artificial Intelligence
- Recipient of the IET Prize for the most outstanding student on an IET accredited course.
- First class honors with firsts in all four years of the degree. A complete academic transcript is available on nforstner.com/transcript.pdf.
- Third year thesis on object tracking using conventional video and optical flow.

2017

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

Work Experience

June & July 2022

University of York
Research support assistant - Telemedicine with AI for COVID-19 patients
- Analysed and consolidated the team's research towards using AI to diagnose COVID-19 infections to prepare them for publication in journals such as PLOS.
- Developed integrations for AI models such that they could be used internally.

July & August 2020

Atos
Intern - Consulting for data science and artificial intelligence
- 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
Intern - 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.

Skills

GENERAL:	Extremely passionate about AI, self-sufficient style of working, knowledge-able in system design and software best practices, good communicator and team player, scientific writing
MACHINE LEARNING:	Diffusion models, Generative models, Computer vision, compute clusters, architecture search
	Jax, Haiku, Optax, Chex, PyTorch, OpenCV, Numpy
LANGUAGES:	Python, Rust, JavaScript, some C and CUDA
OTHER:	Linux, Git, GitHub, Docker, Slurm, GCP, AWS, LaTeX, Vim

Languages

ENGLISH:	Business level
GERMAN:	Native

Other interests

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