Jonas Schäfer

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SKILLS

PROGRAMMING LANGUAGES

Competent: Python • Java

Familiar: Kotlin • TS • Haskell • C • Zsh

MARKUP & STYLING

LATEX • Markdown • HTML • (S)CSS

TECHNOLOGIES AND TOOLS

Git • Sklearn & PyTorch • Firebase • Angular • Hugo • Agile • UML • TDD • Linux • macOS

LANGUAGES

- > German (native C2)
- > English (fluent C1/C2)
- > French (advanced B1)

INTERESTS

Science videos, listening to music and playing the guitar & piano , travelling, photography, learning languages

EDUCATION

UNIVERSITY OF BIRMINGHAM

BSc Computer Science (Hons) 09/2018 - 06/2021 | Birmingham, UK

- > Predicted degree: 1st Honours
- ➤ Student Representative for 2nd Year Computer Science courses
- > Prominent topics covered include:
 - Machine Learning
 - Mathematical Modelling
 - Computer Vision & Robotics
 - Software Engineering
 - Mathematics & Logic
 - Data Structures & Algorithms
 - Networks & Security

WARNDTGYMNASIUM

Abitur | Overall 1.5 07/2018 | Geislautern, Germany

- > Examination subjects: English (14), Mathematics (13), German (13), Informatics (12), Geography (10)
- > Honor received for school's best final Informatics exam

WORK EXPERIENCE

ROYAL SOCIETY INDUSTRY SUMMER STUDENTSHIP

University of Birmingham, School of Biosciences 7. 07/2020 - 09/2020 | Full-time Studentship | Remote

- ➤ This research was funded by The Royal Society and supervised by Dr. Jackie Chappell , Senior Lecturer in Animal Behaviour.
- > I iteratively designed a Deep Neural Network-based system to monitor behaviour of captive animals via CCTV-applied pose estimation.
- > My work was presented and praised by academics at The Royal Society.
- >> Within 10 weeks, I independently aguired fundamental Computer Vision knowledge required for this opportunity. I worked with real data to design a monitoring system which is now being further researched .

WEB DEVELOPER & GERMAN PARTNERSHIP LEAD Climate Science 1

12/2019 - Present | Part-time (voluntary) | Remote

- > I coordinate development with the CTO and implement and maintain the organisation's web app in a dynamic technical team of 4-8 members.
- > I lead the coordination and negotiation of partnerships and funding with private companies & regional and national ministries in Germany.
- > Our web platform currently reaches about 18.000 monthly users (February 2021) with an increase in users of 57% to the previous month.
- >> I continuously devote time to combat Climate Change misinformation, aguire web technology expertise and deploy customer-facing products.

IT SYSTEM ADMINISTRATOR | ProWIN Winter GmbH 7 07/2019 (3 weeks) | Full-time Internship | Illingen, Germany

>> I improved the company's operating efficiency by automating order

confirmations across departments and improved password policies for employees to enhance network security.

PROJECT EXPERIENCE

CARDIAC MRI - SEMANTIC IMAGE SEGMENTATION

11/2020 – 12/2020 | University coursework - Neural Computation

- > Our team was tasked with performing image segmentation on a real CMRI dataset and writing a scientific report on our approach and result.
- > We implemented and trained a custom UNet architecture in PyTorch to achieve a 89% DICE-score on the coursework Kaggle competition
- >> I co-lead my team of 5 members to a 91% grade, displaying leadership & team managament skills, methodical thinking and academic rigor.

GRAVITY SIMULATION IN JAVA

11/2019 | Private Software Project

- ➤ Simulator of gravitational forces in 3D space capable of performing complex **n-body simulations** with logging output, collision detection,...
- >> I display my ability to design software and produce clean, easily extendable and well-documented code for complex private projects.