HENDRIK STAENDKER

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SUMMARY

Motivated Programmer with a Master's degree in Informatics for the Natural Sciences. Proficient in writing clean code in Python, Dart, C++ or Java. Dedicated to Machine Learning, Computer Vision with Tensorflow/PyTorch/OpenCv and Cross-Platform Development with Flutter. Passionate about problem-solving and eager to apply skills to new and challenging problems.

EXPERIENCE

Freelance Software Engineer | Machine Learning

📅 05/2024 - Present   📍 Germany

- Machine Learning: Implementation of machine learning algorithms, data preprocessing, model/parameter optimization, result analysis
- Computer Vision: Creation of custom datasets, training of object detection and classification models, object segmentation with instance analysis, automation with image processing
- Skin cancer detection app with image classification model deployed with Docker/TfServing on AWS EC2 Instance and as Tflite model
- Multi-model image classification app with user feedback for wrongly classified images, REST API Server for data storage and model training, admin app for user feedback/dataset/model supervision

Working Student Medical Device Engineer

Stapleline Medizintechnik GmbH

📅 11/2019 - 08/2021   📍 Bochum, Germany

- Creation of a new product design for a suction rinse unit to reduce material usage in production, using CAD and 3D prototyping
- Revision of technical documents and IFUs according to MDR

Working Student Machine Learning Engineer

Task9 GmbH   📅 10/2018 - 05/2019   📍 Bochum, Germany

- Proof of concept for a car dent detection system using Python, OpenCv and Tensorflow
- Documentation of possible solutions (deep learning based, pattern projection based distortion)

Student Tutor

University of Applied Sciences Hamm-Lippstadt

📅 10/2016 - 04/2018   📍 Hamm, Germany

- Tutor in the prototyping lab (3D printing, laser cutting, CAD design)
- Biomedical Engineering Lab Assistant

Student Assisat

Frauenhofer SYMILA (FIT)   📅 10/2013 - 03/2015   📍 Hamm, Germany

- General literature research
- Project-specific research for equipment and relevant information

EDUCATION

Master of Science: Informatics for the Natural Sciences

GPA **1.5** / 4.0

Bielefeld University   📅 10/2018 - 04/2022

- Thesis: Input Normalization of Optical Flow with spiking neural networks and the sEMD

Bachelor of Engineering: Biomedical Engineering (Subject: Computer Science)

GPA **1.6** / 4.0

University of Applied Sciences Hamm-Lippstadt

📅 10/2014 - 09/2018

- Thesis: Image Classification of plant leaves with the machine learning algorithms Random Forest and Nearest Neighbor

INTERNSHIP

Research Internship

National Chung Cheng University

📅 10/2015 - 02/2016   📍 Chiayi, Taiwan

Computational Intelligence Lab, Prof. Chuan-Kang Ting

- Topic: Medical image registration with Evolutionary Strategies

PROJECTS

Building of habitation box on a truck

📅 04/2023 - 04/2024   📍 Germany

- CAD Design, welding and construction of frame/habitation box/interior
- installation of windows and doors
- installation of electricity, water and gas system
- manufacturing of the interior
- Technical report proves a reinstatement value of € 106,000 by SV Happel, Gladenbach

SKILLS

Programming

Python   Dart   C++   Java

HTML/CSS

Machine Learning/Computer Vision

Tensorflow   PyTorch   Scitkit-Learn

OpenCv   imageJ   Numpy   WEKA

Searborn/Matplotlib

Software Engineering

Git   Github   Docker   AWS   OOP

Unit Testing   Scrum

LANGUAGES

German   Native   ●●●●●

English   Proficient   ●●●●○