

HENDRIK STÄNDKER

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Lüdinghausen, Germany
HenHar



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

05/24 – Ongoing 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 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 11/19 – 08/21 Bochum

- 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 10/18 – 02/19 Bochum

- 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

UoAS HSHL 10/16 – 04/18 Hamm

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

Student Assistant

Fraunhofer SYMILA (FIT) 10/13 – 03/15 Hamm

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

EDUCATION

Master of Science: Informatics for the Natural Sciences

Bielefeld University 10/18 – 04/22 GPA: 1.5

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

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

University of Applied Sciences Hamm-Lippstadt 10/14 – 09/18 GPA: 1.6

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

INTERNSHIPS

Research Internship

National Chung Cheng University

10/15 – 02/16 Chiayi, Taiwan

Computational Intelligence Lab, Prof. Chuan-Kang Ting

- Topic: Medical image registration with Evolutionary Strategies

PROJECTS

Building of habitation box on a truck

04/23 – 04/24 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

Software Engineering

Git Github Docker AWS
Unit Testing Scrum

Machine Learning/Computer Vision

Tensorflow PyTorch OpenCv
scikit-learn

LANGUAGES

German ● ● ● ● ●

English ● ● ● ● ●