

Timo Klein

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in timo-klein34

EXPERIENCE

Student research assistant

Karlsruhe Institute of Technology

01/2020 - 10/2020

Karlsruhe

Worked on a system for cooperative decision making in autonomous driving.

I set up and maintained the continuous integration pipelines for two ROS projects using Docker and GitLab-CI. Within the projects I solved various issues like writing data exporters for a C++ library or testing scripts. Lastly, I generated plots for publications using matplotlib and seaborn.

Student research assistant

FZI Forschungszentrum Informatik

11/2018 - 12/2019

Karlsruhe

Worked on an information extraction system for heterogeneous document.

I developed the concept for our model and implemented the prototype in Python using gensim and tesseract-ORC. To speed up our data labeling process I built a labeling tool with Tkinter and SQLAlchemy. Since we were operating with limited training data, I implemented a permutation-based image data generator using NumPy and OpenCV.

Project Manager

Huber Consulting

05/2017 - 11/2018

Limburgerhof

Developed sports and health care concepts for customers.

To properly evaluate our projects in sports I collected and analyzed athlete data.

Intern

Huber Consulting

02/2017 - 04/2017

Limburgerhof

Interned in the sports consulting department.

Contractor

Amadeus Data Processing GmbH

11/2016 - 12/2016

Erding

Checked legal documents and assisted in tender processes.

Intern

S+P Lion AG

08/2016 - 10/2016

Heddesheim

Master data management and German/English translation.

Participant

BTZ Berufliches Trainingszentrum

06/2015 - 04/2017

Mannheim

Job coaching including waiting times.

Illness and convalescence

01/2012 - 06/2015

PUBLICATIONS

Neural Citation Recommendation: A Reproducibility Study

Michael Färber, **Timo Klein**, Joan Sigloch

ECIR 2020 (Workshop on Bibliometric-enhanced Information Retrieval)

EDUCATION	Karlsruhe Institute of Technology , Karlsruhe, Germany <i>Master of Science</i> , Economics Engineering, October 2021. University of Mannheim , Mannheim, Germany <i>Bachelor of Science</i> , Economics, January 2012. Gymnasium Schifferstadt , Schifferstadt, Germany <i>Abitur</i> , March 2008.
TECHNICAL SKILLS	Python : Pytorch, Numpy, Ray, Pandas, Plotly. C++ : Libtorch, Eigen3, Boost. Tools : Git, ROS, L ^A T _E X, Weights & Biases, GitLab-CI, Docker. Operating Systems : Linux, Windows.
ONLINE COURSEWORK	This is a relevant excerpt. The full list is on my LinkedIn. STAT 110x <i>Harvard University</i> , edX, May 2020. Accelerated Computer Science Fundamentals <i>University of Illinois at Urbana-Champaign</i> , Coursera, December 2019. Beginning C++ Programming - From beginner to beyond <i>Frank J. Mitropoulos</i> , udemy, November 2019. 6.00.1x: Introduction to Computer Science and Programming using Python <i>Massachusetts Institute of Technology</i> , edX, October 2018. Complete linear algebra: Theory and Implementation <i>Mike X. Cohen</i> , udemy, June 2018. Mathematics for Machine Learning <i>Imperial College London</i> , Coursera, April 2018.
LANGUAGES	English : fluent, German : native.
INTERESTS	Sports, hiking, beekeeping, growing chili peppers and cooking spicy curries

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Karlsruhe, May 29, 2021