



RENÉ SASS

SOFTWARE ENGINEER

WORK EXPERIENCE

RESEARCH SCIENTIST/ENGINEER

Leibniz University | Hanover | Germany | July 2021 - Dec 2022

- Head engineer of the interactive platform DeepCAVE for analyzing AutoML processes in real-time written in Python and Dash.
- Project lead for the hyperparameter optimization framework SMAC written in Python.
- Research in the area of “Explainable Automated Machine Learning”.
- Supervised the lecture “Interpretable Machine Learning”.
- Involved in the BMBF funded project CoyPu for event failure forecasting.
- Developed the web front-end of automl.org, one of the largest AutoML communities.
- Responsible for supervising graduate students in research and projects.
- Hosting and administrating the institut's communication platform Mattermost.
- Part of the support team at AutoML conference 2022.

Main technologies: Python, PyTorch, Dash, Git

RESEARCH SCIENTIST (INTERN)

Volkswagen AG | Wolfsburg | Germany | Apr 2020 - May 2021

- Research in the area of AI and Deep Learning in automatic driving
- Integration, experimentation and evaluation of data augmentation techniques and robustness-improvement methods for CNNs using TensorFlow/PyTorch.
- Support in internal and external ML-based research projects including research publications in top AI conferences.
- Contribution in perception evaluation test framework together with external partners.
- Continuous monitoring and evaluation of results with multi-GPU trainings.

Main technologies: Python, PyTorch, TensorFlow, Git, MySQL, Confluence

EDUCATION

MASTER OF SCIENCE (TECHNICAL INFORMATICS)

Leibniz University | Hanover | Germany | Oct 2018 - July 2021

- Graduation thesis “Automated Outlier Detection via Bayesian Optimization”.
- Specilization in Machine Learning.

BACHELOR OF SCIENCE (TECHNICAL INFORMATICS)

Leibniz University | Hanover | Germany | Oct 2015 - Oct 2018

- Graduation thesis “Learning Visual Similarity with Siamese Neural Networks for Semi-Supervised Object Detection”.
- Project lead in a software project with agile software development (Scrum).

ADVANCED PROJECTS

CONTENT MANAGEMENT SYSTEM

Yii2, HTML/CSS, SQLite

VOCABULARY TRAINER

NodeJS, ExpressJS, HTML/CSS, MySQL

PERSONAL

ADDRESS

Noltestr. 21, 30451 Hannover

BIRTHDAY

1996/04/06

CONTACT

PHONE

+4915127526282

EMAIL

mail@renesass.de

LINKEDIN

[linkedin.com/renesass](https://www.linkedin.com/company/renesass)

GITHUB

github.com/renesass

RECOMMENDATIONS



NIKHIL KAPOOR

Tech Lead AI @ CARIAD

I was supervising René directly during his Internship at Volkswagen. In my experience, I have found René to be an exceptionally talented professional with very high motivation and initiative towards his work. He is very passionate about programming and writing clean, efficient and scalable code. His knowledge...
[\[Read more\]](#)

PROG. LANGUAGES

PYTHON ●●●●●

JAVASCRIPT ●●●●●

HTML/CSS ●●●●●

SQL ●●●●●

SWIFT ●●●●●

SKILLS

LANGUAGES

German (Native), English (C1), Chinese (A1)

OPERATING SYSTEMS

MacOS, Linux, Windows

SOFTWARE

Visual Studio Code, Notion, Affinity Collection, GitHub, GIT, Apache 2.0, Matlab, Latex, Commandline, SSH, Virtual Environments, MongoDB, Jira, Confluence

PYTHON LIBRARIES

PyTorch, Tensorflow, NumPy, Pandas, Dash/Plotly, Matplotlib, scikit-learn, Sphinx, Flask, Django

JAVASCRIPT LIBRARIES

jQuery, NodeJS, ExpressJS, Bootstrap, ReactJS

VISITED COURSES

10-finger writing, rhetoric course, time- and self-management

MUSIC

Part-time job as a pipe-organ musician and choir conductor

PERKS

SELF-ORGANIZED

SELF-MOTIVATED

GOAL-ORIENTED

HIGH-QUALITY WORK

TEAM PLAYER

INTERNATIONAL EXPERIENCE

SEMESTER ABROAD

Beijing Institute of Technology | Beijing | China | Oct 2019 - Mar 2020

I attended the lectures "Introduction to Radar Systems", "Web Mining", and "Computer Science & Technology Frontier". In particular, the semester expanded my cultural awareness and social network.

INTERNATIONAL SUMMER SCHOOL

Xidian University | Xi'an | China | Jul 2019

The summer school was about information and communication technology. Program consists of academic lectures, field trips, and cultural experiences.

AWARDS & CERTIFICATES

BIKO

Leibniz University | Hanover | Germany | 2019 - 2021

I received a certificate of international and intercultural competence. The program includes international experiences, multilingual competencies, intercultural competence, and voluntary work.

PROMOS SCHOLARSHIP

Leibniz University | Hanover | Germany | 2019

The program promotes the mobility of students for study-related abroads, approved by DAAD. The grant was given after an application and selection process.

SELECTED PUBLICATIONS

DEEPCAVE: AN INTERACTIVE ANALYSIS TOOL FOR AUTOMATED MACHINE LEARNING

ICML Workshop on Adaptive Experimental Design and Active Learning | 2022

SMAC3: A VERSATILE BAYESIAN OPTIMIZATION PACKAGE FOR HYPERPARAMETER OPTIMIZATION

JMLR | 2021

HPOBENCH: A COLLECTION OF REPRODUCIBLE MULTI-FIDELITY BENCHMARK PROBLEMS FOR HPO

NeurIPS Datasets and Benchmarks | 2021

RISK ASSESSMENT FOR MACHINE LEARNING MODELS

NeurIPS Workshop on Machine Learning for Autonomous Driving | 2020

INTERESTS



TRAVELING



BADMINTON



PIANO



RUNNING



MINDFULNESS