WORK EXPERIENCE

Machine Learning Engineer, Working Student	**TraceTronic GmbH**	**May 2022 – Present**

- Designed and implemented a cloud-based method for deploying data acquisition, preprocessing and machine learning pipelines that was reused multiple times across the company, resulting in improved efficiency and scalability of data science processes as well as a in a new method to extend existing products
- Developed data analysis applications to gain deep insights into test execution data, identifying sources of errors and providing actionable insights to improve testing processes

Software Engineer, Working Student	**Conimon GmbH**	**Nov 2020 – May 2022**

- Played a key role in developing major parts of multiple web applications that served as the core products of the company, providing customers with a simple and intuitive means of remotely monitoring large machine parks, gaining deep insights, and receiving maintenance suggestions based on data streams from partner measurement devices

Software Engineer, Student Assistant	**Neuroimaging Center TU Dresden**	**Mar 2019 – Oct 2020**

- Streamlined the usage of data imaging pipelines for medical imaging by overhauling the codebase and adding new features to a web application utilized by neuroscience researchers, resulting in improved productivity, user-friendliness, and efficiency for end-users

Software Engineer, Student Assistant	**Media Center TU Dresden**	**Oct 2018 – Mar 2019**

- Contributed to bugfixing and developed minor features for a university website, ensuring a seamless user experience for faculty, staff, and students

EDUCATION

MSc. Computer Science	**Technische Universität Dresden**	**Apr 2021 – Oct 2023**

- Focus on software engineering, artificial intelligence, and data science
- Master thesis on Development of an adaptable model for automated classification of error patterns in test execution

Bsc. Computer Science	**Technische Universität Dresden**	**Oct 2017 – Apr 2021**

- Bachelor thesis on Generating Taxonomy from large Text Corpora using Machine Learning
- Finished with a GPA of 2.2 (Germany)

PROJECTS

- **MathGrass** Web app for automatic assessment of mathematical graphs through form-based and graphical labeling questions, with SageMath script support and incremental hints for an improved learning experience in university math courses. Java, Spring, TypeScript, React, Docker, Postgres
- **LabraDoc** Document management system that enables efficient upload and management of PDF files, custom document creation, automated AI-powered tagging of document contents, as well as indexing and searching capabilities. Python, TypeScript, node.js, mongodb, Docker, mlflow, tensorflow, flask, svelte-kit

Languages and Technologies

- Programming Languages: Java, Python, JavaScript/TypeScript
- Frameworks and Libraries: Spring, Flask, pandas, numpy, scikit-learn, Keras/tensorflow, React
- Technologies: SQL/NoSQL (Postgres, Mongo), Docker, Git, JIRA/Confluence
- Languages: German (native), English (C1), Spanish (A2), Vietnamese (basic)