

Tobias Lindenbauer

🏠 tobias.lindenbauer.me | 📱 Liqs-v2

Education

Technical University of Munich

COMPUTER SCIENCE, M.Sc.

Munich, Germany

Apr. 2023 - present

- Implemented and trained multiple neural networks for image classification and segmentation (e.g. Fashion MNIST, CIFAR-10) using PyTorch and NumPy.
- Fundamentals in Natural Language Processing through asynchronous self-learning (e.g. university course recordings).

Technical University of Munich

COMPUTER SCIENCE, B.Sc.

Munich, Germany

Sep. 2019 - Mar. 2023

- Bachelor's thesis: "Automated Classification and Statistical Analysis of Scheduling-Diagrams", Grade 1.0 (best possible). Implemented a robust data pipeline in Python to extract data from images and evaluate exam exercises. Built a dashboard in R and performed an exploratory data analysis.
- Gained a solid mathematical foundation for machine learning by completing courses such as "Applied Regression" and "Statistical Computing" in my mathematics minor.
- Acquired theoretical and practical experience in various machine learning and data analysis techniques, including naive Bayes, random forests, ensemble methods and clustering, through coursework such as "Business Analytics and Machine Learning."

Technical University of Munich

PHYSICS, B.Sc.

Munich, Germany

Sep. 2018 - Aug. 2019

HTL Wels - Computer Science

MATURA

Wels, Austria

Sep. 2012 - Jun. 2017

Experience

Infineon Technologies AG

WORKING STUDENT AS BUSINESS AND DATA ANALYST

Neubiberg, Germany

Aug. 2023 - Present

- (Data) Requirements and Feature Engineering for an internal data product.
- Setting up a robust and efficient data pipeline ingesting raw Excel data in Dataiku, including data preprocessing using Python and Pandas.

Adesso SE

WORKING STUDENT AS FULLSTACK SOFTWARE DEVELOPER

Munich, Germany

Oct. 2020 - Feb. 2023

- Developed and maintained web applications for the entertainment industry and internal use, utilizing a microservice architecture, SpringBoot, Angular, as well as common unit and E2E testing frameworks.
- Created Docker images and managed project infrastructure, including Jenkins pipelines, servers and documentation.
- Investigated and performed the migration of projects between development environments (e.g., Docker Desktop to Rancher Desktop).

Coil Innovation

FULLSTACK SOFTWARE DEVELOPER

Eferding, Austria

Jun. 2018 - Aug. 2018

- Obtained customer feedback, elicited requirements and formulated user stories for the project backlog.
- Maintained and expanded a MySQL database, ensuring data integrity, normalized tables and developed efficient SQL queries.
- Developed a lightweight, company-internal ERP system, using CakePHP, Redux and ReactJs.

Kindergarten Eferding

CIVILIAN SERVICE (COMPULSORY MILITARY SERVICE)

Eferding, Austria

Sep. 2017 - May. 2018

eww AG

SOFTWARE DEVELOPMENT AND SYSTEM ADMINISTRATION INTERN

Wels, Austria

Aug. 2017

- Conceptualized, developed and verified a data pipeline for the generation and parsing of large Excel sheets, optimizing a regular, manual data entry process, reducing the workload from up to a week to 15 minutes.

Skills

Programming Java, Python, R, Javascript, Angular, SpringBoot, Microservices, REST API, SQL, PostgreSQL, MySQL

DevOps Docker, Jenkins, Git, Web Hosting, Linux, Android

- Machine learning** NumPy, OpenCV, PyTorch, Pandas, Jupyter Notebooks, Shiny, Tableau, Regression, Decision Trees and Random Forests, Clustering, Cross Validation and Sampling techniques
- Other** Scrum, LaTeX, Public Speaking, Organized and efficient way of working, Impact-oriented

Extracurricular Activities

Olynet

Munich, Germany

CTO & MEMBER

Oct. 2021 - Jul. 2023

- Formulated and executed the organization's strategic vision, driving expansion into new business domains.
- Pioneered the OlyApp project, leading a team in developing a student-focused smartphone application, using Flutter, for enhancing the living experience in the "Olympisches Dorf" dormitory.
- Led and executed the end-to-end development, deployment, and successful launch of the organization's new website and self-service platform, taking charge of all aspects from planning to implementation.

TUMdev

Munich, Germany

MEMBER & SOFTWARE DEVELOPER

Oct. 2021 - May 2022

- Enhanced the Android version of the "TUM Campus App" by resolving bugs and improving the user experience in the public transport module.
- Initiated the migration of the cafeteria component, which was one of the largest and oldest modules, to a new API. This allowed me to refine my skills in SQL, table migration, and REST, and resulted in improved data accuracy and integrity.

Students For Future - Munich

Munich, Germany

ACTIVIST

Oct. 2020 - Mar 2022

- Managed and maintained the organization's website, ensuring up-to-date content and smooth functionality.
- Planned, developed, and facilitated a successful strategy workshop, engaging participants in impactful discussions.
- Streamlined organization processes and improved the content quality and integrity of the centralized knowledge base.

FSMPI

Munich, Germany

STUDENT REPRESENTATIVE

Oct. 2018 - Mar. 2019

- Participated in quality assurance meetings for the teaching quality with other students, faculty staff and the dean.

Languages

German Native, C2

English Fluent, C1-C2