

Lukas Mautner

DATA SCIENTIST · MACHINE LEARNING STUDENT · CONSULTANT

Zurich, Switzerland

☎ +41 76 504 51 16 | ✉ lukas.mautner98@gmail.com | 🏠 <https://lmautner.me> | 📷 lukDev | 🌐 lukas-mautner

“If you want to change the world, start by making your bed.”

Professional Experience

Artifact S.A.

Zurich, Switzerland

DATA SCIENTIST & CONSULTANT

May 2022 - NOW

- development and shipping of a data-science-backed micro-service application on Azure Cloud
- management of and training and evaluation on a new text-classification dataset
- evaluation of abstract clusterings in major scientific conference
- extraction of keyframes from videos using state-of-the-art visual reasoning
- advances into making generative AI useful and manageable for corporations

iteratec GmbH

Munich, Germany

SOFTWARE ENGINEER & SCRUM MASTER

Oct. 2020 - May 2022

- design and implementation of micro-service landscape (Java, Spring Boot, PostgreSQL)
- shipping through CI/CD on AWS Cloud Platform (Jenkins, Docker, Kubernetes)
- frontend design and implementation (Angular, TypeScript)
- guidance of agile team as Scrum Master in SAFe context
- strategic planning with the customer and other agile teams

Education & Student Work

ETH Zürich

Zürich, Switzerland

M.Sc. COMPUTER SCIENCE

Sep. 2021 - NOW

- current grade: 5.64 ch | 1.4 de
- major in machine intelligence
- minor in information security

TU Munich

Munich, Germany

B.Sc. INFORMATICS

Oct. 2018 - Sep. 2020

- grade: 1.4 de (92nd percentile) | 5.60 ch
- major in computer science (grade: 1.2 de | 5.80 ch)
- minor in mechanical engineering (grade: 2.5 de | 4.75 ch)

iteratec GmbH

Munich, Germany

WORKING STUDENT (SOFTWARE ENGINEER)

May 2019 - Sep. 2020

- cross-platform app development (Flutter, Dart)
- experimental computer vision project (Python, OpenCV)

TU Munich

Munich, Germany

TEACHING ASSISTANT

Oct. 2019 - Sep. 2020

- Discrete Structures (WS 19/20) & Discrete Probability Theory (SS 20)
- guided exercise lectures, homework and exam grading

msg AG

Passau, Germany

WORKING STUDENT (SOFTWARE ENGINEER)

Apr. 2017 - Apr. 2019

- iOS native app development (Swift)
- company-internal service development (Java, Spring Boot)

University of Passau

Passau, Germany

B.Sc. MOBILE AND EMBEDDED SYSTEMS

Oct. 2016 - Sep. 2018

- hardware-level computer science
- transferred to TUM

Adalbert-Stifter-Gymnasium

Passau, Germany

ABITUR (A-LEVELS)

Sep. 2008 - Jun. 2016

- focus on natural sciences
- final grade: 1.4 de

Research & Projects

Deep Reinforcement Learning for Performing Evolutionary Computation

TUM COMPUTER VISION GROUP

- one-year long research project, culminating in bachelor's thesis and pending publication
- combined machine learning techniques to enhance performance (DRL, genetic algorithms)
- use of novel DL algorithms (AWR, SAC) and architectures (CNNs, transformers, attention mechanisms)
- research and experimentation (Python, PyTorch, Tensorboard)

Munich, Germany

Oct. 2019 - Sep. 2020

ValveShelf & Honours Degree

UNIVERSITY OF PASSAU

- co-founder of ValveShelf
- design and build of an automatic cocktail mixer (CAD, electrical engineering, craftsmanship)
- creation of a companion app for ordering (iOS native, Bluetooth)
- successfully completed the Honours Degree in Digital Technology and Entrepreneurship

Passau, Germany

Nov. 2017 - Nov. 2018

Advantage Weighted Regression in PyTorch

GITHUB

- implementing the DRL algorithm according to the research paper
- enabling the use of AWR in projects using PyTorch (first such implementation on GitHub)

Munich, Germany

Mar. 2020

Soft Skills

Languages	German, English (C1, business fluent)
Problem Solver	successful research project, skilled social mediator
Teamwork & Leadership	Scrum Master, 4 years' experience working in agile teams
Motivated to Learn	B.Sc., Honours Degree, pursuing M.Sc., constantly looking for new challenges
Communication Skills	trust me on this one

Technical Summary

Programming Languages	Java, Python, TypeScript, SQL (Postgres), Kotlin, Swift, C, Dart, OCaml
Frameworks	Spring Boot, Angular, NumPy, PyTorch, SciPy, Pandas, TensorFlow, XCode (iOS native), OpenCV, React, Flutter
DevOps	Jenkins, Docker, Kubernetes
Platforms	AWS Cloud, Lambda Architectures, On-Site Deployment

Extracurriculars

Standardized Tests

- Graduate Record Examination (GRE):
 - VR: 162 (90th percentile)
 - QR: 169 (94th percentile)
 - AW: 5.5 (98th percentile)
- Test of English as a Foreign Language (TOEFL):
119/120

Hobbies

- climbing and bouldering
- ballroom dancing
- calisthenics and running
- literature (fiction, psychology, philosophy)
- cooking (and eating)