



E-Mail GitHub	 davidgasser12@gmail.com github.com/davidGasser	LinkedIn Webpage	 linkedin.com/in/d-gasser davidgasser.github.io
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AI Engineer & Researcher focused on foundation models and applied machine learning. Experienced in developing, fine-tuning, and deploying transformer architectures and RAG pipelines across research and enterprise environments.

PROFESSIONAL EXPERIENCE

Mar 2025 – Sep 2025 Full-time internship Tokyo, Japan	AI Researcher - Japan National Institute of Informatics <ul style="list-style-type: none">- Researched <u>AI for time series prediction</u>. Fine-tuned, evaluated, and deployed foundation models.- Developed and evaluated <u>novel transformer-based architectures</u> for structured financial data.- <u>Coauthored paper</u> on transformer-based time series forecasting; basis for Master's thesis.
Aug 2024 – Nov 2024 Full-time internship Munich, Germany	IT Strategist - Munich Re AG <ul style="list-style-type: none">- Conducted and managed <u>tech trend research</u>, culminating in an <u>externally published report</u>.- Tracked and supported internal as well as external <u>IT product compliance</u>.- Studied <u>new insurance opportunities</u> and enhanced <u>external partner satisfaction and performance</u>.
May 2024 – Aug 2024 Full-time internship Munich, Germany	AI Engineer - Munich Re AG <ul style="list-style-type: none">- Contributed, presented, and demoed an <u>internal tool</u> utilizing <u>RAG/Semantic Search</u>.- Conducted a <u>vector database migration</u> to Azure, resulting in a <u>30% performance improvement</u>.- Developed a <u>POC for Apache Airflow</u> as a workflow orchestrator.
Sep 2023 – Apr 2024 part-time internship Munich, Germany	Software Engineer - Siemens AG/KeySpot GmbH <ul style="list-style-type: none">- Implemented <u>ML-driven table recognition</u> software for technical datasheets.- Built and deployed a <u>microservice</u> for automatic <u>document format conversion</u>.- Evaluated libraries for <u>document change detection</u> and management.

ACADEMIC EDUCATION

Apr 2022 - Oct 2025 Munich, Germany	M.Sc. Robotics, Cognition, Intelligence - Technical University of Munich (proj. 1.4/US GPA 3.7) <ul style="list-style-type: none">- Master's thesis in the field of AI for Financial Time Series Classification.
Aug 2022 - Dec 2023 Taipei, Taiwan	Exchange semester - National Taiwan University (1.4/US GPA 3.7) <ul style="list-style-type: none">- Coursework consisted of 24 ECTS spanning Robotics, Bioinformatics, Automata Theory, and Mandarin.
Oct 2018 - Apr 2022 Munich, Germany	B.Sc. Electrical and Computer Engineering - Technical University of Munich (1.9/US GPA 3.1) <ul style="list-style-type: none">- Bachelor's Thesis in the field of Deep Learning Recommender Systems.

SKILLS & QUALIFICATIONS

Programming:	Python, Go, C++, C, Solidity, JavaScript
AI/ML:	PyTorch, TensorFlow, HuggingFace, Optuna, Tensorboard, scikit-learn, pandas, NumPy
Deployment:	Git, Docker, Azure, Anaconda, Databricks, Linux, CI/CD
Visualization:	Matplotlib, Seaborn, NetworkX
Websites:	Django, React, HTML, CSS, Streamlit, Scrapy, Selenium
Other Tools:	Obsidian, Hyperledger Fabric, LaTeX, Gemini CLI, MATLAB, ROS
Languages:	German (mother tongue), English (mother tongue), Spanish (B1), Mandarin (A2)

PROJECTS

- Blockchain Sustainability Tracker:** Built a blockchain-based CO₂ token tracking system for supply chain transparency. Modeled emissions and material exchanges to ensure verifiable and confidential tracking using Solidity and Hyperledger Fabric.
- Robotic Painting Arm:** User input was captured by speech detection and sent to DALL-E for image creation. Anipainter converted images into brush strokes, which were then painted with acrylics by a robot arm (TM5-700).
- Creative Greeting Card:** Developed a full-stack, reactive web app for generative multimedia greeting cards, exploring computational creativity via NLP and image synthesis models.

LEISURE & VOLUNTEERING

- PADI Dive Master:** Leading, managing, coordinating dives, and assisting in teaching with up to 12 divers.
- Network Administrator - Dormitory:** Managed network infrastructure for ~40 residents.
- Mentor incoming exchange students:** Supporting incoming students with educational and general questions.