David Gasser

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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
- Researched AI for time series prediction. Fine-tuned, evaluated, and deployed foundation models.
- Developed and evaluated novel transformer-based architectures for structured financial data.
- Coauthored paper 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
- Conducted and managed tech trend research, culminating in an externally published report.
- Tracked and supported internal as well as external IT product compliance.
- Studied new insurance opportunities and enhanced external partner satisfaction and performance.

May 2024 – Aug 2024
Full-time internship
Munich, Germany

AI Engineer - Munich Re AG
- Contributed, presented, and demoed an internal tool utilizing RAG/Semantic Search.
- Conducted a vector database migration to Azure, resulting in a 30% performance improvement.
- Developed a POC for Apache Airflow as a workflow orchestrator.

Sep 2023 – Apr 2024
Part-time internship
Munich, Germany

Software Engineer - Siemens AG/KeySpot GmbH
- Implemented ML-driven table recognition software for technical datasheets.
- Built and deployed a microservice for automatic document format conversion.
- Evaluated libraries for document change detection and management.

ACADEMIC EDUCATION

Apr 2022 - Oct 2025
Munich, Germany

M.Sc. Robotics, Cognition, Intelligence - Technical University of Munich (1.4/US GPA 3.7)
- 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)
- 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)
- 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)
Nationalities:	German, American, Swiss

PROJECTS

Blockchain Sustainability Tracker: Built a blockchain-based CO_2 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.
Hobbies: Surfing, diving, cooking & baking, volleyball, reading, traveling, and learning languages