

# Felix Saaro

Software Engineer, MSc Data Science  
Zurich, Switzerland

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Software Engineer with a broad background spanning machine learning systems, distributed infrastructure, full-stack development, and DevOps. Focused on building and deploying real-world systems end-to-end. From data pipelines and model training to scalable production services. I'm looking for engineering roles where this breadth can be applied to complex technical problems and impactful systems.

## Experience

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**Research Assistant — ZHAW, Centre for Artificial Intelligence** 2023 – Present  
Winterthur, Switzerland

Built and deployed infrastructure for running **LLMs up to 70B parameters** on on-premise multi-node GPU clusters using NVIDIA Triton and vLLM.

Designed and implemented a **multimodal perception pipeline** combining event cameras and LiDAR for real-time aerial object detection. Developed a **synthetic dataset generation pipeline** using simulation to accelerate model training and evaluation.

Led end-to-end development of an **LLM-assisted labeling system** extracting **574 hierarchical labels** from **30k medical records** using only **2k annotated samples**.

Responsible for full ML lifecycle: data preparation, annotation strategy, model fine-tuning, evaluation, and stakeholder reporting. Built internal tools for autonomous testing infrastructure (React, Node.js, PostgreSQL) used to coordinate experiments and sensor validation.

**DevOps Engineer — Bühler Group AG** 2019 – 2023  
Uzwil, Switzerland

Built automation across Azure DevOps pipelines improving code review workflows, dependency tracking, and release processes across multiple teams. Developed an internal **documentation platform indexing 100 repositories** with integrated chatbot search using Azure Bot Framework. Prototyped an early **RAG system** using FastAPI and PostgreSQL to enable semantic search across engineering documentation. Contributed to infrastructure and process improvements supporting **ISO27001 certification**. Helped standardize shared frontend components within an Angular library used across multiple products.

**Front-End Engineer — CanvasHeroes B.V.** 2017 – 2019  
Amsterdam, The Netherlands

Led development of multiple web and mobile applications using React, React Native, and Symfony. Improved scalability of a production application to support **10k concurrent users** through caching and distributed database replication. Implemented CI/CD pipelines using Bitbucket, improving deployment reliability and release speed. Mentored interns through code reviews and engineering best practices.

**Apprentice / Software Developer — Online Consulting AG** 2013 – 2017  
Wil, Switzerland

Contributed to a web-based platform for industrial after-sales services within an international SCRUM team.

## Education

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**MSc Data Science** – ZHAW in Winterthur, Switzerland 2023 – Present  
**Thesis:** On the Evaluation of RAG Systems: A Bayesian View *Final Grade: WIP*  
**Semester Project:** Do NOT Classify and Count: Hybrid Attribute Control Success Evaluation *Final Grade: 6/6*

**BSc Computer Science** – ZHAW in Winterthur, Switzerland 2020 – 2023  
Including an Exchange Semester at UiA in Grimstad, Norway *Fall 2022*  
**Thesis:** The Influence of Audio Length on the Performance of Swiss-German Speech Translation Models *Final Grade: 5.5/6*

## Projects

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**Skärim - Swiss-German Voice Mod for Skyrim** Ongoing  
A mod that localizes dialogue by cloning character voices using a fine-tuned Qwen3-TTS model conditioned on character race. Using 8,000 hours (3.5 TB) of speech across seven dialects and trained using multi-GPU pipelines (PyTorch DataParallel).

**Cheers.li** 2023  
Mobile app to share your location with friends and invite them to join. Built with Capacitor and Supabase, deployed via Fastlane.

**Floq.io** 2022  
Event-driven low-code platform connecting software systems. Built with React, .NET, and NodeJS, deployed on Kubernetes using Helm Charts.

## Volunteer Experience

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**President** – Handballclub Uzwil 2024 – Present  
Lead a club with 100 children across 14 teams and 60 adults across three teams. Coordinate activities, support coaches and volunteers, and organize initiatives such as two regional youth tournaments with 400 participants each.