NOAH LEUENBERGER

nle.sh • github.com/noaahh • linkedin.com/in/noahleuenberger

Education

University of Applied Sciences Northwestern Switzerland (FHNW) — Brugg, Switzerland
BSc Data Science — Sep 2022 – Apr 2025
- Specialization in Machine Learning; final grade 5.8/6.0 (ECTS A) — with distinction
- Bachelor's thesis: "Fine-Tuning Pre-Trained ECG and CMR Encoders with a Modular Pipeline and Comprehensive Evaluation for Cardiovascular Diagnostics" — thesis grade 6.0/6.0

Gewerblich-Industrielle Berufsfachschule Solothurn — Solothurn, Switzerland
Vocational Baccalaureate (BM2), Technology–Architecture–Life Sciences — 2021 – 2022
- Final project: "Artificial Neural Networks" — 5.5/6.0
- Final grade 5.5/6.0

Gewerblich-Industrielle Berufsfachschule Solothurn — Solothurn, Switzerland
Informatiker EFZ, Application Development — 2017 – 2021
- Final grade 5.6/6.0

Experience

University of Applied Sciences Northwestern Switzerland (FHNW) — Brugg, Switzerland
Research Assistant — May 2025 – Present
- Design and operate end-to-end infrastructure for retrieval-augmented generation (full-stack): document ingestion and indexing, ETL with validation, chunking and embedding, and API-based serving for defined use cases
- Automate LLM-system experiments with a pipeline focus: scale text generation, define datasets and metrics, implement reproducible evaluation of generated text, and orchestrate runs and environments with containers and CI/CD

Rohde & Schwarz SwissQual AG — Zuchwil, Switzerland
Software Engineer — 2021 – Apr 2025
- Designed and shipped the Custom Scripts feature in SmartAnalytics; built an interactive SQL generator and investigated Druid SQL ↔ Microsoft SQL Server translation for compatibility and performance
- Developed SmartOrchestrator (full-stack) to automate network-test campaigns; integrated with the Smart web platform and built pipelines for automated data processing
- Balanced 20–40% part-time workload alongside studies; collaborated with team to deliver releases on time

Rohde & Schwarz SwissQual AG — Zuchwil, Switzerland
Software Engineer Apprentice — 2018 – 2021
- Supported the cloud migration of SmartAnalytics; refactored modules and implemented GraphQL interfaces
- Built internal tools, including an order-processing web app (C#, ASP.NET, Angular) and a time-tracking application (C#, ASP.NET, WPF)

Paul Büetiger AG — Biberist, Switzerland
Software Engineer Apprentice — 2017 – 2018
- Maintained and extended customer websites per evolving requirements
- Developed an intranet for cross-department information management

Skills & Interests

Technical: C#/.NET/ASP.NET; Python; TypeScript (Angular); SQL; REST APIs; Docker; CI/CD; Deep Learning (PyTorch); Large Language Models; Computer Vision
Languages: German (native); English (CEFR C1)
Interests: Fitness; Hiking; Lindy Hop; Squash