

Mateusz von Schiller

+41 76 690 38 73

mateusz.von.schiller@matvs.dev

github.com/matvs

Zürich, CH

EXPERIENCE

Helsana Insurance Company Ltd

Oct 2020 – Sep 2025

Full Stack Engineer · One of Switzerland's largest health insurers

Zürich, CH

- Reduced production incidents by ~75% in the broker support and management platform by redesigning its business-process workflows into reusable, composable subprocesses with tightened input-data contracts.
- Automated team's release process by migrating backend services' CI/CD pipelines from on-prem to cloud, replacing manual deployment steps with standardised, builds and freeing engineers from release toil.
- Eliminated uncontrolled production database changes by prototyping a version-controlled, declarative schema-migration workflow (Liquibase) – replacing ad-hoc, hand-run SQL with reviewable, repeatable, rollback-able migrations.
- Improved team-wide code quality and engineering practices – design patterns, testability, and consistent style – by mentoring junior developers and reinforcing standards through code reviews and pair sessions.

helmedica AG

Jul 2019 – Sep 2020

Web Developer · Medical practice-management software

Zürich, CH

- Automated incoming lab-result entry by building a matching component that auto-attached exact matches directly to patients and routed ambiguous ones to a staff review queue, replacing what was previously fully manual data entry.

PROJECTS

Drug Review Condition AI Classifier (DistilBERT) | Vistula AI Engineering · 4-person team

2025–2026

- Built a reproducible ML pipeline (cleaning → masking → baseline → fine-tuning → evaluation → auto-rendered PDF report) classifying free-text drug reviews into 10 conditions on a 98K class-stratified, drug-name-masked dataset derived from 215K raw reviews.
- Established a TF-IDF + logistic regression baseline on masked data (0.879 accuracy, 0.836 macro-F1, 0.981 top-3 accuracy across 10 classes) as the floor the Transformer must clear; quantified drug-name label leakage via masking ablation (+2.0 / +2.7 points accuracy/macro-F1 from un-masking).
- Fine-tuned **DistilBERT** with class-weighted cross-entropy and early stopping on macro-F1 (handling 8.6:1 class imbalance) to reach **0.917 accuracy and 0.880 macro-F1** on the masked test set – a +3.8 / +4.4 point improvement over the linear baseline across the 10-condition target.

Sunrise TV | Netstream

2015 – 2017

- Won Netstream's internal hackathon: pitched and built a live-match sports-highlights replay feature for Sunrise TV, the consumer IPTV set-top box, built with one teammate.

Graph Adjacency-Matrix Generalisation | University Algorithms & Data Structures

- Earned the course's top grade (5/5) and an exam exemption granted to only 3 of ~300 students by devising an original generalisation of the graph adjacency-matrix representation.

From Nand to Tetris | Building a Modern Computer From First Principles

2019

- Built the Hack hardware platform in HDL: from logic gates and ALU to CPU, memory hierarchy, and full computer chip.
- Implemented the toolchain in Python: a two-pass assembler with symbol resolution, and a VM translator supporting stack arithmetic, branching, functions, and returns.
- Wrote Tetris in Jack on top of the platform: seven tetromino shapes encoded as bitmaps, rotation, collision detection, and line clearing.

Contra Corona | CodeVsCOVID19 Hackathon

2020

- Built a multiplayer team game to raise awareness of the importance of social distancing during the pandemic, with mechanics that rewarded players for staying home.

EDUCATION

Vistula University

Oct 2025 – Expected 2027

Computer Science · Specialisation: Artificial Intelligence Engineering

Warsaw, PL

Part-time, semester 4 of 7 · GPA 4.16 / 5.00.

SKILLS

Languages : Java (5 yrs), JavaScript (10 yrs), TypeScript (7 yrs), Python (10 yrs)

Frameworks : Spring Boot, Angular

ML / Data Science : PyTorch, Hugging Face Transformers, scikit-learn, pandas, NumPy

Technologies : Azure DevOps CI/CD, Camunda BPM, Liquibase, Oracle Database, SQL, Bash, Docker, Git