



CONTACT

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EDUCATION

General English Training
International House Manchester
August 2023
English Language Course
FREI'S Schools, Lucerne
Jan. 2022 – Jan. 2023

LANGUAGES

German (Native)
English (Cambridge First, B2)
French (2nd mother tongue, DELF B2)
Bilingual Support DE/FR in production

HACKATHONS

SwissHacks 2026
SwissHacks 2025
SwissHacks 2024 (1. Platz)
Young Talents Hackathon 2024 (2. Platz)
Hackergarten (regelmässig)
NASA Space Apps 2024 (Global Nom.)

OTHER

Driver's License Cat. B · Drone License A1/A3 ·
SLRG Youth Certificate

OLIVIER LÜTHY

SOFTWARE DEVELOPER WITH AI-FIRST FOCUS

Profile

Software developer with an AI-first mindset and a passion for building things. Overall winner of SwissHacks 2024 with a production RAG pipeline. Developer of multiple AI-integrated Chrome extensions used by thousands of active users. Volunteer at Kulturverein Meggen. Outside of coding: FPV freestyle drone pilot and marathon runner.

Work Experience

- Present – Aug. 2024** **ICT Application Specialist / Customer Care Analyst**
Delta Logic AG, Sursee (LU)
- Central interface between customers and development; 1st & 2nd level support via **Jira & Accelo** in German and French.
 - IT Security: vulnerability assessments (**Rapid7**), phishing simulations (**KnowBe4**), **SSL/TLS** certificate management, VM management.
 - Contributed to achieving the **#1 Cybersecurity Score** across the entire Volaris Group in 2024 — recognised with an internal company award.
 - System & infrastructure administration: managing virtual environments, network shares, user permissions and system access.
 - Design & implementation of the bilingual release notes platform (DE/FR) on **deltalogic.ch** (**WordPress**).
- Present – 2023** **SwissHacks & NASA Space Apps | Hackathon Winner & MVP Developer**
Tenity (110, Zurich) · NASA Remote
- SwissHacks 2024 (1st place & overall winner): document chat system via **RAG pipeline** — architecture: **FastAPI** backend, **OpenAI** Embeddings + **GPT-4**, **Pinecone** vector database, chunking strategy & retrieval optimisation. Won against 20+ teams.
 - NASA Space Apps 2024 (Global Nominee): "Kepler's Horizon" – interactive educational platform with **Next.js & FastAPI** and AI-assisted content generation.
 - SwissHacks 2025: corporate knowledge base with **human-in-the-loop** validation & token-saving algorithm for cost-optimised LLM queries.
- Present – 2023** **CSS Insurance | Open Source Contributor (Hackergarten)**
April 2024 – Present · Lucerne (LU) · Monthly
- Monthly participation in the exclusive tech incubator at the CSS ICT Campus; agile ad-hoc teams.
 - Production-grade code, bug fixes and optimisations for community projects according to open-source standards.
 - Rapid prototyping ranging from low-level hardware programming to full-stack web applications.
- heute – 2022** **Kulturverein Meggen | IT, Communication & Visual Media**
Voluntary · Annual
- Conception, creation and presentation of annual **General Assembly presentations** (**PowerPoint**).
 - Event photography, image editing and publication on the club website.
 - Outlook**-based automation solution for efficient mass member mailing without external tools.

Projects (Selection)

Promptin	AI Chrome extension: slash-command prompt manager injected into ChatGPT , Claude , Gemini & Grok . Shadow DOM architecture, MutationObserver DOM handling. 200+ weekly users.
WhatsApp Customizer	3,000+ weekly users. Stack: JavaScript , Chrome Extension APIs , local storage sync, dynamic DOM manipulation, custom theme engine.
TuneVote.com	Music voting platform with OpenAI API song suggestions, YouTube scraping via yt-dlp , DB migrations with Knex . Stack: Next.js , React+Vite , Socket.io , Docker , VPS . Auth: Google & Facebook .
Prio.fun	Time-tracking app. AES-256 encryption of all DB data, CKEditor , Google Login . Stack: PHP , MySQL , JS .
flickclean.app	iOS photo cleaner. 100% on-device — no cloud upload, no data transfer. Stack: Flutter .
Trip-xchange.com	Collaborative trip planning web app. Role: project lead, frontend & feature owner. Google Ads campaign (20–30 international first users). Stack: PHP , Docker . Ongoing.

► Additional showcase projects (DroneLog, PolicyFlow, Face-Recognition) see page 2

TECHNOLOGIES

Backend & Frameworks

C#, ASP.NET Core 8, Entity Framework
CQRS/MediatR, SignalR, Hangfire
C# WPF, C# Web Forms
Java, Quarkus, PHP, Python, PowerShell

Frontend & Mobile

TypeScript, JavaScript, React.js, Next.js
Angular, Xamarin, Ionic, Flutter
TailwindCSS, Framer Motion

Databases

MSSQL, PostgreSQL, MySQL, SQLite

AI & Machine Learning

OpenAI API (GPT-4, Embeddings)
Anthropic API (Claude)
Pinecone, RAG-Pipelines
Prompt Engineering, LangChain
OpenCV, face-recognition (Python)

Security & Infra

Rapid7, KnowBe4, SSL/TLS, JWT
VM-Management, Git, Docker, VPS

APIs & Data Processing

OpenAI API, yt-dlp, Knex
Python-MySQL, REST APIs

Testing & CI/CD

xUnit, FluentAssertions, NSubstitute
Testcontainers, JUnit 5, RestAssured
GitHub Actions

Tools & Produktivität

Office 365 (Word, Excel, PowerPoint, Visio)
JIRA, Accelo, WordPress
TimeTac, Clockodo, Outlook

3D Printing & Hardware

Ultimaker Cura · OctoPrint (Raspberry Pi)

Video & Design

DaVinci Resolve, Adobe Premiere Pro
Autodesk Fusion 360

REFERENCES

Robert Eichenberger
CISO / Group IT CHAT
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Head of Software at OpenMind-IT
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WORK EXPERIENCE — CONTINUED

July 2023 – Aug. 2019 Application Developer EFZ (Apprentice)
Kauz Informatik Medien AG, Ballwil (LU)

- Web applications with **C#, ASP.NET Core, Entity Framework Core**, MSSQL following the MVC pattern (incl. club management, contact tracing software, HR management).
- Formula-based calculation tool (**C# Web Forms**): deriving maximum metrics from minimal inputs via mathematical formula research and simplification.
- Security desktop tool (**C# WPF**): password strength checker, live brute-force simulator, configurable password generator (length, digits, symbols, upper-/lowercase).
- Mobile apps: barcode scanner (**Xamarin & SQLite**, MWM) · project management app (**Ionic**).
- Backend & DB: API development, DB design with **PHP/MySQL** and **ASP.NET Core/MSSQL**; automation via **PowerShell**; Discord bots (**Python**).
- Independent conception, development and rollout of customer-specific solutions; technical documentation and user training.

Further Areas of Responsibility (Kauz)

- | | |
|---------------------------------------|--|
| ✓ Version control with Git | ✓ Desktop apps with C# WPF |
| ✓ Form tools with C# Web Forms | ✓ Brute-force simulation & password analysis |
| ✓ Error analysis & troubleshooting | ✓ System integration & database design |
| ✓ API development & documentation | ✓ User training & demos |

★ Employer Assessments

"Conscientious, committed and ambitious. Worked very efficiently and with a solution-oriented approach. Always achieved the set goals to our complete satisfaction. His work results were creative, conceptually well thought-out and consistently of outstanding quality."
— Kauz Informatik Medien AG, Employment Reference 31.07.2023

"Sound technical expertise, applied with confidence and purpose. Handles even sensitive support requests with composure. High commitment, reliability and a strong interest in IT security. Integrated into the team very well in a short time."
— Delta Logic AG, Interim Reference 20.04.2026

🔧 Technical Showcase Projects

DroneLog — EASA Drone Flight Logbook Platform
ASP.NET Core 8 · C# · Clean Architecture · CQRS/MediatR

- Multi-tenant REST API: row-level multi-tenancy via **EF Core** query filters resolved from **JWT** claims; policy-based RBAC (Admin / Instructor / Pilot).
- EASA compliance engine with Result<T> pattern; **SignalR** real-time notifications; **Hangfire** licence expiry warnings; **QuestPDF** export; Azure Blob Storage.
- 69 tests: **xUnit**, **FluentAssertions**, **NSubstitute** (unit) + **Testcontainers** SQL Server (integration). CI/CD via **GitHub Actions**, **Docker Compose**.

PolicyFlow — Swiss Insurance Broker Platform
Java 21 · Quarkus · Clean Architecture · PostgreSQL

- KVG premium calculator (multiplicative model: age group, canton, deductible, accident cover); offer & policy management with state machine.
- PDF export via **OpenPDF**; immutable audit log; stateless **JWT (RS256)**; **Flyway** migrations; Swagger UI. Tests: **JUnit 5**, **RestAssured**, **Mockito**.

Face-Recognition · Brute-Force-Login · Clockodo-Autofiller
Python · OpenCV · Security Research · Web Scraping

- Face-Recognition: real-time face detection via **OpenCV & face-recognition** library; frame-by-frame camera stream processing.
- Brute-Force-Login: Python security tool simulating brute-force attacks on login systems for penetration testing purposes.
- Clockodo-Autofiller: **Python web scraping** automation for time-tracking workflows.

⚡ Beyond the Code

FPV Drone Building & Freestyle: self-built and configured FPV drones with a focus on freestyle flying; component design with **Autodesk Fusion 360**.
3D Printing & Maker: slicing with **Ultimaker Cura**; remote control via **OctoPrint** on **Raspberry Pi**. Ongoing project: self-designed bird feeder bowl in transparent biodegradable **PLA** with food-safe epoxy resin coating — designed and manufactured independently.
Endurance Sport: completed several half-marathons and marathons; actively training for the **SwissCityMarathon**.
Precision Sport: active sport shooter (Ingold Bern & Lucerne Indoor).