

FABIAN UNTERMOSER, MSc

Freelance Fullstack Developer



Location: **Salzburg, Austria** *Einzelunternehmen*
Available: **Remote / Hybrid (CET)**
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Links: **github** | **gitlab** | **linkedin**
Languages: **English (C1), German (native)**

SUMMARY

Freelance fullstack developer with 6 years building web, mobile, and backend end-to-end. Most recently founding engineer at Joaia (Swiss AI travel startup) – shipped iOS and Android apps, including a brownfield integration into Zurich Tourism's *Zürich City Guide* (100K+ downloads).

EXPERIENCE

Founding Engineer, Freelance – Joaia – AI Local Guides 01/2025 – 06/2026, Remote

Founding engineer at Joaia, Swiss AI travel startup partnering with Switzerland's largest tourism organisations. AI local-guides platform serving 10K+ LLM messages/month; shipped mobile, web, and backend end-to-end.

- **Zürich City Guide** – React Native brownfield integration embedding Joaia AI-guide features into Zurich Tourism's *Zürich City Guide* app (100K+ downloads); built custom API layer bridging Joaia's backend with Zurich Tourism's infrastructure.
- **Joaia App** – built and shipped end-to-end to Apple & Google Play stores (React Native, Expo, EAS).
- **Guide Studio** – co-architected B2B platform for authoring AI local guides; built custom voice creation (ElevenLabs), personality configuration and publish-to-app flow; engineered RAG pipeline with document ingestion (Azure Document Intelligence), vector retrieval, and Azure OpenAI.
- **Platform** – monorepo and Azure DevOps pipelines; observability and identity (Sentry, Mixpanel, Clerk); marketing site migration from WordPress to Plasmic.

Software Engineer – Porsche Informatik 09/2019 – 03/2024, Salzburg

Fullstack delivery across products: greenfield license-management service, CAS-based SSO service, and dealer-management platform Cross 3.

- **License Manager (LIM)** – replaced ad-hoc Excel-based license billing across all Porsche Informatik products with a unified automated platform; eliminated manual reconciliation and cut time-to-revenue on new module activations.
 - Manages dealer sites, applications, licenses, and billing models org-wide; auto-generates contracts on activation and monthly SOFA booking orders for invoice creation.
 - Built greenfield from zero to production: Spring Boot + Angular, OAuth2, OpenAPI-generated REST API, HA MongoDB, OpenShift; GitLab CI/CD with E2E tests, SAST, and automated deployment.
- **Cross SSO** – engineered CAS-based SSO (Central Authentication Service) enabling secure M2M communication across Cross 3's microservice landscape; adopted across teams via feature-flagged incremental rollout.
- **Misc** – MongoDB to PostgreSQL migration; Security Champion (org-wide): SAST (SonarQube), DAST (Burp), Xray false-positive assessment and remediation, Secure Code Warrior; maintained shared internal libraries.

PROJECTS

Zürich City Guide – AI Tourist App

Zurich Tourism, brownfield integration

React Native brownfield integration embedding Joaia AI-guide features into Zurich Tourism's *Zürich City Guide* (100K+ downloads) – AI guides grounded in curated Zurich Tourism content, integrated with the existing map.

React Native, Callstack Rock, MMKV, React Query

zuerich.com/zurich-city-guide-app

Joaia App – AI Local Guides

Joaia, consumer mobile app

Cross-platform AI travel-guide app on iOS and Android. Features: local guides with custom voices; voice/text chat with TTS/STT; photo recognition; Google/Apple SSO; map-based Explore page with chat-driven recommendations.

React Native, Expo, EAS, MMKV, React Query

[App Store](#) | [Play Store](#)

Guide Studio – AI Guide Authoring Platform

Joaia, B2B web platform

Web platform letting businesses author custom AI local guides – personality configuration, custom voice creation (ElevenLabs), and publish-to-app flow.

Next.js, NestJS, Azure OpenAI, Azure Document Intelligence, ElevenLabs

joaia.app/destinations

Obsidian – Neighbouring Files Plugin

Personal, open source

Plugin for efficient file navigation in Obsidian. Over 6,000 downloads.

TypeScript, Docker, GitHub Actions

[GitHub repo](#)

Stockis Destillerie – E-Commerce

Client, e-commerce

Full-stack ownership: SEO, analytics, GDPR-compliant payments, and operations automation.

WordPress, WooCommerce, Elementor, Stripe

stockis-destillerie.at

Eagle Eye Paragliding – Online Presence

Client, business website

Custom website, SEO, and Google Business driving discovery and bookings.

Custom Web, SEO, Google Business

eagleeye.tv

Home Lab – Self-hosted Infrastructure

Personal

Synology NAS, Docker Compose, GitLab CI/CD, Ansible, Portainer, Watchtower, RenovateBot, ZeroTier, n8n, ntfy, Syncthing, Nextcloud, Open WebUI

Docker Compose, GitLab CI/CD, RenovateBot, ZeroTier, Synology, Portainer, Nextcloud, Ansible, Watchtower, n8n, ntfy, Syncthing, Open WebUI

Master Thesis – Machine Learning Reproducibility

FH Salzburg, master thesis

Quantifying how framework choice and hyperparameter optimisation affect ML reproducibility – surveyed popular frameworks; trained 16 controlled models.

Machine Learning, TensorFlow, PyTorch, Python

SEDSH – ML Ambient Sound Event Detection

University Halmstad, research

Ambient sound classification for activity recognition and anomaly detection in assisted living.

Machine Learning, DCASE, TensorFlow, Raspberry Pi

ChainDon – Web3 Donation Platform

FH Salzburg, master project

Cross-border crypto donations to charity projects.

Next.js, NestJS, Ethers.js, Ethereum, Hardhat, Docker Compose, GitLab CI

chaindon.org | [Product Hunt](#)

SolarAssets – Web3 Investment Platform

FH Salzburg, master project

Micro-investments in solar projects paying recurring grid-sale profits.

Next.js, NestJS, Ethers.js, Solidity, Hardhat, Docker, GitLab CI

solarassets.app | [Product Hunt](#)

EDUCATION

10/2022 – 10/2024	FH Salzburg – MSc, Web Engineering Master thesis on machine-learning reproducibility.	Salzburg, Merit
03/2024 – 08/2024	University TOYO – Exchange Semester Global and Regional Studies; Japanese language coursework.	Tokyo, Japan
09/2019 – 07/2022	FH Salzburg – BSc, Media Informatics Bachelor thesis on modern software development practices in enterprise environments.	Salzburg, Merit
08/2021 – 01/2022	University Halmstad – Exchange Semester Master-level Artificial Intelligence and Computer Systems Engineering coursework.	Halmstad, Sweden

TECH STACK

AI Engineering	LLM integration (Azure OpenAI, OpenAI, Anthropic), ElevenLabs, LangSmith
Mobile	React Native, Expo, EAS, Callstack Rock, React Query, MMKV, SSO, Maestro
Web & Backend	Next.js, NestJS, Angular, Node.js, Java, Spring, Clerk, Cypress
Cloud & DevOps	Azure, GitHub Actions, GitLab CI, Docker, Kubernetes, Terraform, Ansible
Data	PostgreSQL, MongoDB Atlas, Redis, RabbitMQ
Observability	Sentry, PostHog, SonarQube

INTERESTS

Marathon/trail running, skateboarding, hiking, bouldering, and travelling.
Experienced breakdancer and member of Hip-Hop group Classic Skills.