

# Lukas Wolfsteiner

Software Engineer

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Senior Software Engineer based in the Zurich Metropolitan Area; shaping resilient Software Architectures and cultivating flourishing Codebases **EXPERIENCE**

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## Professional Software Engineer (Digital Health) | adesso Schweiz AG

*May 2025 – Present*

Delivering comprehensive software engineering and consulting expertise to adesso Group clients, with specialized focus on innovative digital health solutions. Leading backend development initiatives for healthcare systems, emphasizing robust security frameworks and regulatory compliance standards. Core responsibilities encompass strategic project architecture, solution design, and the development and maintenance of mission-critical software systems.

## Software Engineer (Team Run&Deliver) | Awesome Technologies Innovationslabor GmbH *Apr 2023 – Apr 2025*

Rapidly advanced from entry-level to taking ownership of key infrastructure components in a national-scale healthcare communications platform. Delivered secure communication infrastructure for Germany's national healthcare messaging platform while achieving exceptional quality metrics. Demonstrated technical leadership in high-compliance environments requiring government-grade data protection, security and cryptography standards. Specialized in mission-critical backend development for systems handling sensitive medical data in accordance with strict government standards.

- **\*\*Secure Backend Architecture:\*\*** Engineered scalable Python microservices handling sensitive medical data, implementing BSI-certified cryptography while maintaining strict regulatory compliance for national healthcare infrastructure
- **\*\*Quality & Reliability Champion:\*\*** Established test-driven development culture achieving full coverage for medical-grade software, reducing production bugs by automating comprehensive test suites and implementing robust CI/CD pipelines
- **\*\*Authentication Expertise:\*\*** Delivered enterprise-grade security through KeyCloak integration with OAuth2 and OpenID Connect, implementing fine-grained access controls that protected sensitive patient data while enabling seamless provider authentication
- **\*\*Technical Interface Leadership:\*\*** Translated complex Gematik specifications into implementable requirements, creating interoperability between disparate healthcare systems through RESTful APIs and standardized E-Health protocols
- **\*\*Cross-Functional Impact:\*\*** Bridged technical and business domains by creating comprehensive documentation, mentoring junior developers, and collaborating with stakeholders to deliver solutions that met strict regulatory requirements while solving real clinical needs

## Full-Stack & DevOps Engineer (Financial Services) | WEIGERT + KUNDE Unternehmensberatung GmbH *Apr 2022 – Apr 2023*

Spearheaded development of an integrated document management system that streamlined core business operations for company management. Architected and implemented a comprehensive solution that significantly reduced administrative overhead and eliminated paper-based processes. Delivered a full-cycle project from initial requirements gathering through development to successful production deployment. Demonstrated versatility by handling both development responsibilities and system administration tasks within a small team environment.

- **\*\*End-to-End Solution Design:\*\*** Architected and implemented a complete document management system from database schema to user interface, integrating seamlessly with existing business platform infrastructure
- **\*\*Backend Excellence:\*\*** Created high-performance RESTful APIs using Spring Boot and Hibernate that handled complex document processing while maintaining strict data integrity requirements
- **\*\*Frontend Innovation:\*\*** Developed intuitive user interfaces with Vue.js and Vuetify that significantly improved document workflows and reduced training overhead for business users
- **\*\*Cloud Infrastructure:\*\*** Engineered scalable storage solutions utilizing S3 and PostgreSQL, implementing

efficient data access patterns for reliable document retrieval and management

- **DevOps Integration:** Established robust CI/CD pipelines with Atlassian BitBucket that ensured consistent quality across development and production environments

**Working Student Software Engineer (Higher Education Administration)** | Koordinierungsstelle für Datenverarbeitung in der Hochschulverwaltung an staatlichen Hochschulen für angewandte Wissenschaften in Bayern (KDV) *Apr 2017 – Oct 2019*

Engineered web platform for internal data management and administration serving multiple state universities across Bavaria. Executed comprehensive software development lifecycle from requirements analysis through implementation to successful deployment. Translated complex domain knowledge into effective technical solutions for higher education administration. Demonstrated strong code refactoring skills by successfully integrating complex changes into existing codebases without disrupting critical operations.

- **Database Architecture:** Designed and implemented robust database schemas using Entity Framework Core that effectively modeled complex administrative relationships across multiple institutions
- **Enterprise Backend Development:** Built high-reliability backend systems using ASP.NET Core MVC and C# that efficiently processed and managed sensitive institutional data
- **Responsive UI Design:** Created intuitive user interfaces with ASP.NET Core MVC and Bootstrap 4 that significantly improved administrative workflow efficiency
- **Quality Assurance Leadership:** Implemented comprehensive testing strategies with MSTest that ensured maximum platform reliability for critical administrative functions
- **Domain Knowledge Integration:** Collaborated closely with subject matter experts to translate specialized higher education administration requirements into effective technical solutions

## VOLUNTEER EXPERIENCE

**FlightAware FlightFeeder Operator** | FlightAware International *May 2021 – Present*

Providing real-time flight tracking to the public, helping airlines and operators improve efficiency and promote aviation safety.

- Operating a FlightFeeder station in proximity of the local airport [Neumarkt Opf. (EDPO)](<https://www.flightaware.com/port/EDPO>)
- Reporting an average of over 2.500+ unique aircrafts daily
- Processing and transmitting over 300.000 aircraft positions daily
- Providing coverage for both civilian and military aircraft, enhancing overall airspace awareness

**Bidirectional Translator** | Crowdin *Jan 2014 – Present*

Providing high-quality translations, contributing to the localization efforts of various non-profit organizations and community-driven open-source projects.

- Contributed translations to major open-source projects used by millions of users worldwide
- Helping non-native developers to reach a broader audience
- Specialised in translating for mobile and desktop applications

## EDUCATION

**Bachelor of Science (B.Sc.) in Software Engineering** | IU International University of Applied Sciences *Oct 2023 – Sep 2025*

**Bachelor of Science (B.Sc.) in Computer Science** | Technical University of applied Sciences Regensburg *Apr 2020 – Sep 2023*

## CERTIFICATIONS

**Application Security - The Complete Guide** – Udemy *Nov 2025*

**Crack the Code: Mastering the OWASP Top 10 version 2021-2025** – Udemy *Nov 2025*

**Principles of Secure Coding** – Udemy *Nov 2025*

**Secure coding in Java with Web Application Examples** – Udemy *Nov 2025*

**OWASP API Security TOP 10: A comprehensive guide** – OWASP Foundation *Nov 2025*

**Training Certificate CAD** – Staatliche Realschule für Knaben in Neumarkt i.d.OPf. *Jul 2013*

<b>LFS101x Introduction to Linux</b> – The Linux Foundation	<i>Aug 2014</i>
<b>SQL Island Certificate</b> – MonstER Park	<i>Nov 2020</i>
<b>Data Protection: Professional Confidentiality</b> – SiDIT GmbH	<i>Dec 2023</i>
<b>Data Protection in Home/Mobile Office</b> – SiDIT GmbH	<i>Apr 2024</i>
<b>Data Protection: Technical and Organizational Measures (TOM)</b> – SiDIT GmbH	<i>Sep 2024</i>
<b>Data Protection: Incidents</b> – SiDIT GmbH	<i>Mar 2025</i>
<b>Supply Chain Act - What's Behind It?</b> – adesso SE	<i>May 2025</i>
<b>Using AI Tools</b> – adesso SE	<i>May 2025</i>
<b>Free and Open Source Software (FOSS)</b> – adesso SE	<i>May 2025</i>
<b>Social Engineering</b> – adesso SE	<i>May 2025</i>
<b>Fundamentals of GenAI for Software Development</b> – adesso SE	<i>May 2025</i>
<b>Basic Knowledge of IT Contract Law</b> – adesso SE	<i>Jun 2025</i>
<b>Design Thinking: An Introduction</b> – adesso SE	<i>Jun 2025</i>
<b>GenAI Fundamentals for Project Work</b> – adesso SE	<i>Jun 2025</i>
<b>EASA Remote Drone Pilot Certificate (RPAS)</b> – European Aviation Safety Agency (EASA)	<i>Jan 2021</i>
<b>Introduction to Model Context Protocol</b> – Anthropic	<i>Aug 2025</i>
<b>Model Context Protocol: Advanced Topics</b> – Anthropic	<i>Aug 2025</i>

## SKILLS

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- **Backend:** Python (FastAPI, Pydantic, Mypy), Java (Spring Boot, Hibernate, JPA), C# (.NET Core, ASP.NET MVC), RESTful API Architectures
- **Storage:** SQL (PostgreSQL, MS SQL Server), S3 Object Storage, Data Modeling, Query Optimization
- **Security:** Full IAAA Compliance, OAuth2 & OpenID Connect, BSI-Certified Cryptography, Healthcare Data Protection
- **Frontend:** JavaScript (ES6+, Node.js), TypeScript (Vue.js, Vuetify), Single-Page Applications, Web Accessibility
- **DevOps:** Containerization (Docker), CI/CD (Jenkins, GitHub Actions), Cloud Services (Azure), Infrastructure as Code
- **Quality Assurance:** Test-Driven Development, Code Quality Metrics, Automated Testing, Integration Testing
- **Technical Leadership:** Code Reviews, Junior Mentoring, Requirements Analysis, Technical Documentation

## LANGUAGES

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**German** (native) | **English** (fluent)

## INTERESTS

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**Circuit Design & Analysis:** Hardware

**Philosophy of Information:** Philosophy

**Mobile Technologies:** Android, iOS

**Digital Health & Medicine:** Health

## PROJECTS

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**structured-stern-neon-articles**

*Oct 2024 – Present*

Machine learning dataset consisting of approximately 15k user written texts, articles, and poetry pulled from archives of the Stern NEON website.

- Cleaned and structured dataset with metadata, including author, title, keywords and publication date
- Usecases include text classification, question answering, text generation, and text-to-text generation tasks

*Technologies:* Dataset, Machine Learning

**MicroPinner**

*Jan 2015 – Jan 2023*

A lightweight native Android application that turns the statusbar into a pingboard, similar to sticky notes on a PC.

- 42 stars and 22 forks on GitHub, 10k+ downloads on Google Play
- Developed in Java for Android, with a focus on performance and battery efficiency

*Technologies:* Android, Java

### **Mensaplan**

*Jan 2019 – Dec 2019*

A native Android application for viewing the weekly canteen plan of different university locations in Regensburg, providing easy access to meal information for students.

- Based upon my reverse engineered API for the Studentenwerk Niederbayern / Oberpfalz
- Developed in Java for Android, accumulating 1k+ downloads on Google Play

*Technologies:* Android, Java

### **macOS-PiholeShortcuts**

*Jan 2022 – Dec 2022*

A native macOS application to manage and monitor Pi-hole instances through the status bar, providing quick access to Pi-hole controls and statistics.

- 51 stars on GitHub
- Built using Swift & CoreData and fully integrated with macOS UI standards

*Technologies:* macOS, Swift

### **docker-fritzbox-prometheus-exporter**

*Jan 2023 – Present*

A Docker image for exporting Fritz!Box UPnP statistics to Prometheus, enabling monitoring of Fritz!Box routers using Prometheus and related tools.

- 14 stars and 3 forks on GitHub
- Forked and enhanced with additional metrics for better network monitoring

*Technologies:* Go, Docker, Metrics

### **stwno-mensa\_api**

*Jan 2018 – Dec 2020*

A wrapper around the unofficial API for canteens managed by the Studentenwerk Niederbayern/Oberpfalz, providing JSON, gRPC, and GraphQL interfaces for accessing canteen data.

- Supports multiple API formats (JSON, gRPC, GraphQL)
- Developed in JavaScript

*Technologies:* JavaScript, Node.js, gRPC, GraphQL

### **macOS-SourceListSidebarExample**

*Jan 2020 – Dec 2020*

An example of implementing a sidebar use case in macOS apps using NSOutlineView with CoreData and RxSwift.

- Provided developers a clean example of macOS UI patterns in combination with modern reactive programming
- Written in Swift, utilizing CoreData, RxSwift

*Technologies:* macOS, Swift

### **docker-matrix-synapse-s3**

*Jun 2021 – Present*

A custom Docker image for Matrix Synapse with pre-installed S3 storage support.

- Simplified Matrix Synapse setup with built-in cloud storage support
- Fully automated build and testing pipeline using GitHub Actions

*Technologies:* Docker, Python, Web

### **repogen**

*Aug 2018 – Present*

CLI tool for generating git-repo manifests from GitHub/GitLab/Gitea accounts or organizations through official (even unauthenticated) APIs.

- Written in Node.js, with a focus on performance and ease of use
- Published on npm, with an average of ~100+ downloads per month

*Technologies:* Node.js, CLI, Web

### **Synology-Rclone-Package**

*Apr 2025 – Present*

Contributed an initial package definition for rclone to the SynoCommunity project, enabling seamless installation of rclone on Synology NAS devices through the official package manager.

- Implemented necessary build configurations for cross-compilation of rclone for different CPU architectures
- Successfully merged upstream after thorough review and testing on various Synology NAS hardware

*Technologies: Go, Packaging, Open Source*

### **node-red-raindrop**

*May 2025 – Present*

Node-RED contribution package for interacting with the Raindrop.io API. Provides nodes for managing bookmarks, collections, tags, and user information.

- Full CRUD operations for raindrops (bookmarks) and collections including advanced search and filtering with support for Raindrop.io search operators
- User information access and management w/ comprehensive testing with unit test coverage

*Technologies: Node-RED, JavaScript, API Integration, Open Source*

### **node-red-supermemory**

*May 2025 – Present*

Node-RED contribution package providing integration capabilities with supermemory services for enhanced data management and retrieval.

- Seamless integration with supermemory APIs, advanced data retrieval and management capabilities
- Optimized for workflow automation and data processing w/ comprehensive error handling and logging

*Technologies: Node-RED, JavaScript, Data Management, Open Source*

## **REFERENCES**

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**Dr. Christoph Günther; Co-Founder & CFO @ Awesome Technologies Innovationslabor GmbH**

*“[https://lukas.wolfsteiner.media/assets/files/2025-04-01\\_Testimonial\\_Dr-Christoph-Guenther.pdf](https://lukas.wolfsteiner.media/assets/files/2025-04-01_Testimonial_Dr-Christoph-Guenther.pdf)”*

**Manuel Stahl; Software Architect @ Awesome Technologies Innovationslabor GmbH**

*“[https://lukas.wolfsteiner.media/assets/files/2025-04-23\\_Letter-of-Reference\\_Manuel-Stahl.pdf](https://lukas.wolfsteiner.media/assets/files/2025-04-23_Letter-of-Reference_Manuel-Stahl.pdf)”*

**Sandra Graf; Head of Customer Centricity @ Awesome Technologies Innovationslabor GmbH**

*“[https://lukas.wolfsteiner.media/assets/files/2024-11-29\\_Letter-of-Reference\\_Sandra-Graf.pdf](https://lukas.wolfsteiner.media/assets/files/2024-11-29_Letter-of-Reference_Sandra-Graf.pdf)”*

**Richard Gyenes; Product Owner @ Awesome Technologies Innovationslabor GmbH**

*“[https://lukas.wolfsteiner.media/assets/files/2024-03-19\\_Letter-of-Reference\\_Richard-Gyenes.pdf](https://lukas.wolfsteiner.media/assets/files/2024-03-19_Letter-of-Reference_Richard-Gyenes.pdf)”*

**Simon Haas; Head of Solution Development @ Awesome Technologies Innovationslabor GmbH**

*“[https://lukas.wolfsteiner.media/assets/files/2024-06-07\\_Letter-of-Reference\\_Simon-Haas.pdf](https://lukas.wolfsteiner.media/assets/files/2024-06-07_Letter-of-Reference_Simon-Haas.pdf)”*

**Dr. Wolfgang Wiedermann; Technical Director @ Koordinierungsstelle für Datenverarbeitung in der Hochschulverwaltung an staat-lichen Hochschulen für angewandte Wissenschaften in Bayern (KDV)**

*“[https://lukas.wolfsteiner.media/assets/files/2019-06-11\\_Letter-Of-Recommendation\\_KDV.pdf](https://lukas.wolfsteiner.media/assets/files/2019-06-11_Letter-Of-Recommendation_KDV.pdf)”*