Michael Lohr

Résumé

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„Because a Great Idea Is Never Enough"

Summary

I lead the design and development of scalable systems, specializing in AWS cloud architecture, distributed systems, IoT, DevOps & software architecture.
Passionate about driving innovation and building impactful technology.

Skills

Key Skills

- Software Development
- Product Management
- IoT Engineering
- Cloud Architecture
- Leadership
- Collaboration

Technical Skills

- Programming Languages: TypeScript, Python, Rust, C#, Java, C
- Web Technologies: ASP.Net Core, Vue.js, React/Next.js, Tailwind, Nginx
- Databases: DynamoDB, MongoDB, PostgreSQL, Redis, InfluxDB, Microsoft Dataverse
- Cloud Technologies: Docker, Terraform, CDKTF, Amazon Web Services

Work Experience

Golem Media GmbH — Mar 2025 – Present
FREELANCE WRITER — Munich, Germany

Golem.de is a German technology news website that covers the latest news and trends in the tech industry.

- Writing technical blog posts and articles for the Golem.de website

STABL Energy — Jan 2025 – Present
HEAD OF CLOUD & IT — Munich, Germany

STABL Energy develops smart, safe, reliable, and cost-effective battery storage systems.

STABL Energy — Aug 2023 – Dec 2024
SENIOR CLOUD ARCHITECT & TEAM LEAD — Munich, Germany

- Building, managing and leading the cloud engineering team, driving strategy and execution
- Serving as Product Owner & Product Manager, overseeing product strategy and roadmap
- Assisting the Engineering Director and C-level with financial management and planning
- Managing and leading the IT department as a strategic and technological sparring partner

STABL Energy — Oct 2022 – Jul 2023
CLOUD ARCHITECT & TEAM LEAD — Munich, Germany

- Designing and implementing scalable cloud systems for ingesting and analyzing near-real-time data
- Architecting and developing an IoT platform for remote battery storage management
- Leading development of embedded IoT devices (bare-metal & Linux) using Rust for edge computing
- Acting as the system administrator, managing the company-wide IT infrastructure and processes

STABL Energy — Jan 2022 – Sep 2022
CLOUD ENGINEER, WORKING STUDENT — Munich, Germany

- Implemented a fault-tolerant and scalable monitoring/logging architecture using the AWS Cloud
- Developed embedded software to securely connect microcontrollers to the Cloud

Filics — Aug 2021 – Dec 2021
PROJECT STUDY: FAULT-TOLERANT CLOUD-BASED MONITORING ARCHITECTURES FOR ROBOTICS — Garching, Germany

Filics is a robotic high-tech start-up that builds automated guided vehicles to handle the intralogistical material flow in warehouses.

- Developed a fault-tolerant and scalable monitoring/logging architecture using the AWS Cloud
- Researched and evaluated Cloud Computing solutions for robot/IoT appliances
- Implemented integrations for the Robot Operating System (ROS)
- Defined requirements, selected hardware, and installed wireless communication hardware

Amazon Web Services (AWS) — Oct 2020 – Feb 2021
SOLUTIONS ARCHITECT INTERN — Munich, Germany

Amazon Web Services offers reliable and scalable cloud computing services.

- Developed and delivered workshops on Machine Learning and Big Data in SaaS contexts
- Consulted Independent Software Vendors (ISVs) on AWS cloud offerings and architecture solutions
- Designed and implemented proof-of-concept cloud architectures for customers

Broken Vector UG
Jan 2017 – Jul 2020

FOUNDER & MANAGING DIRECTOR
Eichenau, Germany

Broken Vector developed and sold (Virtual Reality (VR)) software as well as 3D models in various online stores.

- Managed a team of three software developers and four 3D artists
- Developed a voxel-based VR design software that was published on the Steam and Oculus store
- Led product ideation and development from concept to market-ready software products
- Managed business and customer relations

TÜV SÜD Sec-IT
Dec 2018 – Feb 2020

SOFTWARE DEVELOPER, WORKING STUDENT
Munich, Germany

The Cyber Security department of TÜV SÜD creates pragmatic solutions to ensure security on various systems.

- Developed software modules for detecting security vulnerabilities in IT systems
- Designed and architected a distributed system for automated security vulnerability detection
- Deployed software solutions on Docker/Kubernetes platform in Microsoft Azure Cloud
- Led development of a Microsoft ASP.NET Core-based backend
- Developed microservices for large-scale email processing

Lohr IT
Dec 2015 – Present

OWNER
Eichenau, Germany

Lohr IT is developing desktop software and web experiences.

- Building teams and managing software projects
- Developing web applications, API services and desktop software
- Consulting on industry trends and software development tooling

Education

Technical University of Munich
2019 – 2022

MASTER OF SCIENCE (M.SC.), INFORMATICS – SCORE: 1.6
Garching, Germany

The Department of Informatics at TUM is one of the largest and most renowned computer science departments in Germany, and the professors and teaching staff are experts in their respective fields. Students of the master's programs receive a top-level education and can tailor their program to focus in-depth on the topics that interest them most.

- Focused on Internet of Things and Cloud Computing
- In my master's thesis, I presented a novel IaC approach for platform-independent cloud architectures and a transpiler system to deploy to different cloud platforms without platform-specific knowledge (graded 1.0/A+)

Technical University of Munich
2015 – 2019

BACHELOR OF SCIENCE (B.SC.), INFORMATICS: GAMES ENGINEERING – SCORE: 2.4
Garching, Germany

The 'Informatics: Games Engineering' bachelor's degree at TUM is a technically-oriented program for students interested in game development. Games production is a booming industry that is set to grow rapidly in the near future. This new technology is utilized in many industries, including engineering, construction, medicine, and education.

- Focused on Virtual Reality and Machine Learning in the field of human-computer interaction
- In my bachelor's thesis, I researched and developed new interaction methods between smartphones and Virtual Reality applications (graded 1.0/A+)

Certifications

Leading in Coaching Mode
Jun 2025

TROODI

Leadership Development
Jul 2024

TROODI

AWS Certified Solutions Architect – Professional
Feb 2021

AMAZON WEB SERVICES (AWS)

AWS Certified SysOps Administrator – Associate
Dec 2020

AMAZON WEB SERVICES (AWS)
expired

AWS Certified Developer – Associate
Nov 2020

AMAZON WEB SERVICES (AWS)
expired

AWS Certified Solutions Architect – Associate
May 2020

AMAZON WEB SERVICES (AWS)

Volunteering

Akademischer Gesangverein München e.V.
HEAD OF IT

Apr 2024 – Present
Munich, Germany

- Managing all IT systems used by employees, rental customers, and event guests
- Administering the club's operations with 600+ members, its properties and assets, and eight musical ensembles in cooperation with 14 other board members

Akademischer Gesangverein München e.V.
IT AND NETWORK ADMINISTRATOR

Dec 2016 – Present
Munich, Germany

- Developed and implemented a local network infrastructure supporting 200+ concurrent users
- Designed and deployed a Kubernetes-based cluster for web-based infrastructure and applications

Personal Interests

- Contributing to OSS Projects, Writing Technical Blog Posts, Cloud Technologies, Game Development
- Electronics, Building Drones, Home Automation, 3D Printing
- Technical Diving, Skiing, Climbing, Tennis, Biking