

# Michael Lohr

## Curriculum Vitae

„Because a Great Idea Is Never Enough“

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## Summary

Passionate about software development and design, web technologies, distributed systems & IoT, all things containers, DevOps, and game development.

## Skills

### Key Skills

- Software Development
- IoT Engineering
- Leadership
- Product Management
- Cloud Architecture
- 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, Kubernetes, Terraform, CDKTF, Amazon Web Services

## Work Experience

### STABL Energy

HEAD OF CLOUD & IT

Jan 2025 – Present  
Munich, Germany

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

- 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

SENIOR CLOUD ARCHITECT

Aug 2023 – Dec 2024  
Munich, Germany

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

- 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

### STABL Energy

CLOUD ARCHITECT

Oct 2022 – Jul 2023  
Munich, Germany

### STABL Energy

CLOUD ENGINEER, WORKING STUDENT

Jan 2022 – Sep 2022  
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

PROJECT STUDY: FAULT-TOLERANT CLOUD-BASED MONITORING ARCHITECTURES FOR ROBOTICS

Aug 2021 – Dec 2021  
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 inside 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)

SOLUTIONS ARCHITECT INTERN

Oct 2020 – Feb 2021  
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

FOUNDER & MANAGING DIRECTOR

Jan 2017 – Jul 2020  
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

## 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

### 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*

### DAAD English Language Certificate Level GER C1, UNlcert III, ALTE Level 4

May 2020

TECHNICAL UNIVERSITY MUNICH

### LCCI English Language Certificate Level 2 for Business and Commerce

Jul 2013

LONDON CHAMBER OF COMMERCE AND INDUSTRY

### Apprenticeship as Multimedia Assistant (VBP)

Jul 2013

VERBAND BAYRISCHER PRIVATSCHULEN

## Volunteering

### Akademischer Gesangverein München e.V.

Apr 2024 – Present

HEAD OF IT

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.**

BOARD MEMBER, TREASURER

Mar 2017 – Aug 2018

Munich, Germany

- Managed all financial assets of the club itself and six musical ensembles
- Administered the club together with seven 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, Board Games