Michael Lohr
Curriculum Vitae

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Germany

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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
FREELANCE WRITER
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

Mar 2025 – Present
Munich, Germany

STABL Energy
HEAD OF CLOUD & IT
STABL Energy develops smart, safe, reliable, and cost-effective battery storage systems.

Jan 2025 – Present
Munich, Germany

STABL Energy
SENIOR CLOUD ARCHITECT & TEAM LEAD

Aug 2023 – Dec 2024
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
CLOUD ARCHITECT & TEAM LEAD

Oct 2022 – Jul 2023
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
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
Filics is a robotic high-tech start-up that builds automated guided vehicles to handle the intralogistical material flow in warehouses.

Aug 2021 – Dec 2021
Garching, Germany

- 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)
SOLUTIONS ARCHITECT INTERN
Amazon Web Services offers reliable and scalable cloud computing services.

Oct 2020 – Feb 2021
Munich, Germany

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

Jan 2017 – Jul 2020
Eichenau, Germany

- 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
SOFTWARE DEVELOPER, WORKING STUDENT

Dec 2018 – Feb 2020
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, Jöstingmeier & Partner
DATA PROTECTION OFFICER

Jun 2018 – Present
Pucheim, Germany

Lohr, Jöstingmeier & Partner is a German law firm specializing in German and European intellectual property matters. I oversee the personal data protection strategy and ensure compliance with data protection laws.

Technical University of Munich
STUDENT TUTOR

Oct 2016 – Apr 2017
Garching, Germany

As a tutor for the course "Fundamentals of Programming", I taught students object-orientated programming in Java.
- Prepared and held lectures about programming to ~25 students
- Corrected exercises and exams

Lohr IT
OWNER

Dec 2015 – Present
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

Klinikum rechts der Isar der TU München
INTERNSHIP

Jul 2013 – Jul 2013
Munich, Germany

During the internship at the cancer research of 'Klinik und Poliklinik für Innere Medizin II', I mixed chemical compounds and prepared extracted organs for microscopic inspection.

Mammendorfer Institut für Physik und Medizin
INTERNSHIP

Jul 2012 – Jul 2012
Mammendorf, Germany

MIPM develops medical monitoring systems that are magnetic resonance imaging (MRI) compatible. I worked in the assembly and soldered circuit boards, produced electronic plugs, and prepared casings.

Education

Technical University of Munich
MASTER OF SCIENCE (M.SC.), INFORMATICS – SCORE: 1.6

2019 – 2022
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
BACHELOR OF SCIENCE (B.SC.), INFORMATICS: GAMES ENGINEERING – SCORE: 2.4

2015 – 2019
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+)

Obermenzinger Gymnasium
HIGHER EDUCATION ENTRANCE QUALIFICATION, ECONOMIC BRANCH – SCORE: 2.1

2007 – 2015
Munich, Germany

The Obermenzinger Gymnasium München is a state-approved economic and social science grammar school.
- Completed various additional computer science-related courses and activities
- Organized and gave a weekly programming course for other students

Josef-Dering-Grundschule   2007
                                                                    Eichenau, Germany

Certifications

Leading in Coaching Mode   Jun 2025
TROODI

AWS Certified AI Practitioner   Dec 2024
AMAZON WEB SERVICES (AWS)

Leadership Development   Jul 2024
TROODI

Microsoft Certified: Azure AI Fundamentals   May 2021
MICROSOFT

Microsoft Certified: Azure Fundamentals   Apr 2021
MICROSOFT

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, UNIcert III, ALTE Level 4   May 2020
TECHNICAL UNIVERSITY MUNICH

AWS Certified Solutions Architect – Associate   May 2020
AMAZON WEB SERVICES (AWS)

Machine Learning   Jul 2017
STANFORD UNIVERSITY

Unity Certified Developer   Aug 2016
UNITY TECHNOLOGIES   *expired*

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.   Mar 2017 – Aug 2018
BOARD MEMBER, TREASURER   Munich, Germany
- Managed all financial assets of the club itself and six musical ensembles
- Administrated the club together with seven other board members

Akademischer Gesangverein München e.V.   Dec 2016 – Present
IT AND NETWORK ADMINISTRATOR   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