Michael Lohr
Curriculum Vitae

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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
- 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, Kubernetes, Terraform, CDKTF, Amazon Web Services

Work Experience

STABL Energy — Aug 2023 – Present
SENIOR CLOUD ARCHITECT — Munich, Germany

- Building and leading the cloud engineering team from the ground up, driving strategy and execution
- Designing scalable cloud systems for ingesting and analyzing near-real-time data

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

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

- Developed a fault-tolerant and scalable monitoring/logging architecture inside the AWS Cloud
- Researched different Cloud Computing solutions for robot/IoT appliances

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

- Worked on different workshops covering topics like Machine Learning and Big Data in the SaaS context
- Directly consulted Independent Software Vendors (ISVs) about AWS's cloud offerings and proposed architectures

Broken Vector UG — Jan 2017 – Jul 2020
FOUNDER & MANAGING DIRECTOR — 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

TÜV SÜD Sec-IT — Dec 2018 – Feb 2020
SOFTWARE DEVELOPER, WORKING STUDENT — Munich, Germany

- Developed software modules to detect security flaws in IT systems
- Planned and designed the architecture of a distributed system for the automated detection of security vulnerabilities

Lohr IT — Dec 2015 – Present
OWNER — Eichenau, Germany

- 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

- Focused on Internet of Things and Cloud Computing
- In my master's thesis, I presented a novel IaC approach to formulate 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

- Focused on Virtual Reality and Machine Learning in the field of human-computer interaction
- Wrote my bachelor's thesis about using smartphones to interact with Virtual Reality (graded 1.0/A+)

Certifications

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

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

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