



Michael Lohr

Résumé

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Networks
michael-lohr 
michidk 

„Because a Great Idea Is Never Enough“

Summary

Passionate about software development and design, web technologies, distributed systems, containers, DevOps, and game development.

Skills

Key Skills

- Software Development
- Game Development
- Solutions Architecture
- Machine Learning
- Project Management
- Teamwork

Technical Skills

- Programming Languages: C#, Java, JavaScript, Python, Rust
- Web Frameworks: ASP.NET Core, Play Framework, Vue.js, Flask
- Web Technologies: REST, Websockets, HTML, (S)CSS, Apache2, Nginx
- Databases: MySQL, MSSQL, MongoDB, Redis, PostgreSQL, InfluxDB
- Cloud technologies: Docker, Kubernetes, Amazon Web Services

Work Experience

STABL Energy GmbH

JUNIOR SOFTWARE/SOLUTIONS ARCHITECT

Jan 2022 — Current
Munich

- Planning a fault-tolerant and scalable monitoring/logging architecture based on the AWS Cloud
- Developing software to connect microcontrollers to the Cloud in a secure way
- Designing a Cloud-based system to ingest and analyze large amounts of near-realtime data

Filics GmbH

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

Aug 2021 — Dec 2021
Garching

- Developed a logging/monitoring architecture to monitor the robot fleets
- Investigated into different Cloud Computing solutions for robot/IoT appliances
- Developed integrations for the Robot Operating System (ROS)
- Worked out requirements, hardware selection, and installation of wireless communication hardware

Lohr IT

OWNER

Dec 2015 — Present
Eichenau

- Building teams and managing software projects
- Developing and running web applications and container-based backend software

TÜV SÜD Sec-IT GmbH

SOFTWARE DEVELOPER, WORKING STUDENT

Dec 2018 — Feb 2020
Munich

- Planned and designed the architecture of a distributed system for the automated detection of security vulnerabilities
- Deployed software on a Docker/Kubernetes-based platform in the Microsoft Azure Cloud
- Lead the development of a Microsoft ASP.NET Core-based backend
- Developed microservices to handle large scale Email traffic and modules to detect security flaws in IT systems

Amazon Web Services EMEA SARL

SOLUTIONS ARCHITECT INTERN

Oct 2020 — Feb 2021
Munich

- Worked on different workshops covering topics like Machine Learning and Big Data in the SaaS context
- Directly consulted ISVs about AWS's cloud offerings and proposed architectures
- Built proof of concepts of Cloud architectures using the AWS offering for customers

Technical University Munich

STUDENT TUTOR

Oct 2016 — Apr 2017
Garching

- Prepared and held lectures about programming to ~25 students; Corrected exercises and exams

Education

Technical University Munich

MASTER OF SCIENCE (M.SC.), INFORMATICS

2019 — Present

Garching

- Focusing on distributed systems and cloud computing.
- Expected completion: 2022

Technical University Munich

BACHELOR OF SCIENCE (B.SC.), INFORMATICS: GAMES ENGINEERING

2015 — 2019

Garching

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

Certifications

AWS Certified Solutions Architect – Professional

AMAZON WEB SERVICES

Feb 2021

AWS Certified Developer – Associate

AMAZON WEB SERVICES

Nov 2020

AWS Certified SysOps Administrator – Associate

AMAZON WEB SERVICES

Dec 2020

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

TECHNICAL UNIVERSITY MUNICH

May 2020

Unity Certified Developer

UNITY TECHNOLOGIES

Aug 2016

expired

Apprenticeship as Multimedia Assistant (VBP)

VERBAND BAYRISCHER PRIVATSCHULEN

Jul 2013

LCCI English Language Certificate Level 2 for Business and Commerce

LONDON CHAMBER OF COMMERCE AND INDUSTRY

Jul 2013

Volunteer Experience

Akademischer Gesangverein München e.V.

IT AND NETWORK ADMINISTRATOR

2016 — Present

Munich

- Developed a local network infrastructure supporting more than 200 concurrent users
- Architected and developed a Kubernetes-based cluster for web-based infrastructure and applications

Akademischer Gesangverein München e.V.

BOARD MEMBER, TREASURER

Mar 2017 — Aug 2018

Munich

- Managed 30.000 Euro of financial assets of the club itself and six musical ensembles
- Administrated the club together with seven other board members