Michael Lohr
Curriculum Vitae

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Networks
michael-lohr 🔗
michidk 🔗

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
- Game Development: Unity3D, Godot, OpenTK, Three.js
- Operating Systems: Microsoft Windows, Debian, Ubuntu, Manjaro

Work Experience

STABL Energy GmbH   Jan 2022 — Current
JUNIOR SOFTWARE/SOLUTIONS ARCHITECT   Munich

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

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

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

- 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, Jöstingmeier & Partner   Jun 2018 — Present
DATA PROTECTION OFFICER   Puchheim

Lohr, Jöstingmeier & Partner is a German law firm specializing in German and European intellectual property matters. I am overseeing the personal data protection strategy and ensure compliance with data protection laws (GDPR/DSGVO and BDSG).

Lohr IT   Dec 2015 — Present
OWNER   Eichenau

Lohr IT is developing software and web experiences.

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

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

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

- 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   Oct 2020 — Feb 2021
SOLUTIONS ARCHITECT INTERN   Munich
Amazon Web Services offers reliable and scalable cloud computing services.
- 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   Oct 2016 — Apr 2017
STUDENT TUTOR   Garching
As a tutor of 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

Klinikum rechts der Isar der TU München   Jul 2013 — Aug 2013
INTERNSHIP   Munich
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.

MIPM Mammendorfer Institut für Physik und Medizin GmbH   Jul 2012 — Jun 2012
INTERNSHIP   Mammendorf
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 Munich   2019 — Present
MASTER OF SCIENCE (M.SC.), INFORMATICS   Garching
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.
- Focusing on distributed systems and cloud computing.
- Expected completion: 2022

Technical University Munich   2015 — 2019
BACHELOR OF SCIENCE (B.SC.), INFORMATICS: GAMES ENGINEERING   Garching
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 (HCI)
- Wrote my bachelor's thesis about using smartphones to interact with Virtual Reality (graded A+)

Obermenzinger Gymnasium   2007 — 2015
ALLGEMEINE HOCHSCHULREIFE (HIGHER EDUCATION ENTRANCE QUALIFICATION)   Munich
The Obermenzinger Gymnasium München is a state-approved economic and social science grammar school.
- I completed various additional computer science-related courses and activities.
- I held a weekly programming tutorial for other pupils.

Josef-Dering-Grundschule   Until 2007
Elementary/primary school

Certifications

Azure AI Fundamentals   May 2021
MICROSOFT

Azure Fundamentals   Apr 2021
MICROSOFT

AWS Certified Solutions Architect – Professional   Feb 2021
AMAZON WEB SERVICES

AWS Certified Solutions Architect – Associate   Feb 2021
AMAZON WEB SERVICES

AWS Certified Developer – Associate	Nov 2020
AMAZON WEB SERVICES	
AWS Certified SysOps Administrator – Associate	Dec 2020
AMAZON WEB SERVICES	
DAAD English Language Certificate Level GER C1, UNIcert III, ALTE Level 4	May 2020
TECHNICAL UNIVERSITY MUNICH	
Google Cloud Platform: Baseline: Data, ML, AI	Nov 2019
GOOGLE	
Advanced Topics in Procedural Content Generation	Aug 2019
IT UNIVERSITY OF COPENHAGEN	
Machine Learning	Jul 2017
STANFORD UNIVERSITY	
Fundamentals of Digital Marketing	Oct 2016
GOOGLE	
Unity Certified Developer	Aug 2016
UNITY TECHNOLOGIES	*expired*
Apprenticeship as Multimedia Assistant (VBP)	Jul 2013
VERBAND BAYRISCHER PRIVATSCHULEN	
LCCI English Language Certificate Level 2 for Business and Commerce	Jul 2013
LONDON CHAMBER OF COMMERCE AND INDUSTRY	

Volunteer Experience

Akademischer Gesangverein München e.V. 2016 — Present
IT AND NETWORK ADMINISTRATOR Munich
- Developed a local network infrastructure supporting more than 200 concurrent users
- Architectured and developed a Kubernetes-based cluster for web-based infrastructure and applications

Akademischer Gesangverein München e.V. Mar 2017 — Aug 2018
BOARD MEMBER, TREASURER 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