

D-75177 Pforzheim, Germany

■ martin.loeper@gmx.de

"Somewhere between Dev and Ops"

Education

Stanford University (SCPD)

Online

CYBERSECURITY GRADUATE CERTIFICATE: CS 251, CS 212, CS 155, CS 255 (3.96 GPA)

Sept. 2021 - Mar. 2023

Karlsruhe Institute of Technology (KIT)

Karlsruhe, Germany

B.Sc. in Information Engineering and Management (3.2 GPA; top 10% as per ECTS grading table)

Okt. 2014 - Sept. 2020

Stromberg-Gymnasium

Vaihingen an der Enz, Germany

ABITUR / GENERAL HIGHER EDUCATION ENTRANCE QUALIFICATION (3.9 GPA; TOP 3% STATEWIDE)

Sept. 2006 - Jun. 2014

• Organized the Arduino microcontroller and the homepage group for students.

Skills_

Industry Knowledge Web Development, AWS Cloud Architecting, Linux System Administration, Linux & IoT Systems Programming

Development Node.js, Nest.js, REST, GraphQL, Debian Packaging, Git, AWS SDK, MySQL

Operations DataDog, Sentry, Amazon CloudWatch, Amazon Athena, MongoDB Atlas, AWS CLI **DevOps** Docker, Packer, Ansible, GitLab CI, GitHub Actions, AWS CDK, AWS CloudFormation

Programming Typescript, Python, Java, Bash, C++

Languages German (native), Polish (native), English (C1)

Experience

Nesto Software GmbH Karlsruhe, Germany

Sept. 2017 - PRESENT CLOUD SOLUTIONS ARCHITECT

- Built Nesto's cloud infrastructure from the ground up with a strong preference for state-of-the-art AWS architectures and services.
- · Coordinated IoT development, IoT fleet operations, and systems programming including on-premise installations for clients across Germany.
- · Operated internal services as well as mission-critical databases and SaaS workloads in the cloud.
- Participated in full-stack application development using Node.js, TypeScript, OpenUI5, and Vue.js.
- Initially focused on CI/CD automation and classic DevOps tasks.

FZI Research Center for Information Technology

Karlsruhe, Germany

SOFTWARE DEVELOPER [WORKING STUDENT]

Apr. 2016 - Jan. 2018

SAP Walldorf, Germany

SOFTWARE INTEGRATION ENGINEER [INTERNSHIP]

Apr. 2016 - Sept. 2016

- Developed extensions for the MediaWiki knowledge management platform SAPedia.
- Built and operated applications based on the LAMP stack and Apache Solr.
- Set up a continuous delivery pipeline using GitHub for Enterprise and Travis Cl.
- Used SAP Monsoon as an IaaS provider to scale the service flexibly and the Chef IaC platform to automate infrastructure deployments.
- · Connected on-premise services with the SAP HANA Cloud Platform using the SAP HANA Cloud Connector.
- · Optimized the Solr search index using Lucene syntax and implemented a custom Solr extension in Java.
- · Implemented applications based on the OpenSocial Gadget Standard and integrated them into the internal SAP ecosystem following SAP Security Procedures using SAML, SSL, PKI, and principal propagation techniques.

Karlsruhe Institute of Technology

Karlsruhe, Germany

ACADEMIC TUTOR IN COMPUTER SCIENCE

Oct. 2015 - Sept. 2017

- Wrote sample solutions for the programming lecture students at the Institute for Program Structures and Data Organization.
- Extended an automatic testing framework for student programming assignment submissions.
- Moderated the lecture's online question-and-answer platform, ILIAS.
- Created metamodels for languages conforming to the international standard IEC 61131-3.
- · Designed and implemented a domain-specific language for change propagation analysis using the open-source framework Xtext.

MARTIN LÖPER · CURRICULUM VITAE MARCH 3, 2024

Honors & Awards

2017 **EXIST**, Business Start-up Grant from the German Federal Ministry for Economic Affairs and Energy

Karlsruhe, Germany

Presentations

MongoDB.live DACH [GERMAN]

Online Event

SPEAKER FOR TECHNICAL SESSION < KOSTENEFFIZIENTE DSGVO PROTOKOLLIERUNG AT SCALE MIT ATLAS ONLINE ARCHIVE>

Dec. 2020

- Presented Nesto's Cloud Architecture, Tech Stack, and Database Cluster.
- Showed how Nesto saved data storage and backup costs using MongoDB Online Archive.
- · Outlined our approach for SaaS applications to scale cost-effectively while adhering to strict EU GDPR requirements.
- The story was published by MongoDB as an article on their website: Automating hospitality management in uncertain times.

Certifications

AWS Certified Solutions Architect - Professional

7C7KWL51FNVQQ9SQ

AMAZON WEB SERVICES TRAINING AND CERTIFICATION

Jul. 2020 - Jul. 202.

AWS Certified DevOps Engineer - Professional

512NJSPCB2F11K5J Jun. 2019 - Jun. 2022

AMAZON WEB SERVICES TRAINING AND CERTIFICATION

AWS Certified Security - Specialty

T933917CB1F1QLCL

AMAZON WEB SERVICES TRAINING AND CERTIFICATION

May. 2019 - May. 2022

AWS Certified Advanced Networking - Specialty

YJR50BF232QE1QW8

AMAZON WEB SERVICES TRAINING AND CERTIFICATION

Nov. 2019 - Nov. 2022

AWS Certified Data Analytics - Specialty

PCJ3DYYKMJFE1J51

AMAZON WEB SERVICES TRAINING AND CERTIFICATION

Dec. 2019 - PRESENT

Certified Data Protection Officer and Trained & qualified specialist BDSG & GDPR

022012#20023830

COMPLAVIS AKADEMIE

Mar. 2019 - PRESENT

Publications

A cross-disciplinary language for change propagation rules [IEEE CONFERENCE PROCEEDINGS PAPER]

K. Busch, D. Werle, M. Löper, R. Heinrich, R. Reussner, B. Vogel-Heuser

2018 IEEE 14th International Conference on Automation Science and Engineering (CASE), 2018

Eine Sprache für die Spezifikation disziplinübergreifender Änderungsausbreitungsregeln [GERMAN BACHELOR'S THESIS]

M. LÖPER

Karlsruhe Institute of Technology, 2018

Translated by Busch in "An Architecture-based Approach for Change Impact Analysis of Software-intensive Systems", Ch. 9 [DOCTORAL DISSERTATION]

Extracurricular Activity

Post Südstadt Karlsruhe (PSK)

Karlsruhe, Germany

AMATEUR SOCCER PLAYER

Okt. 2014 - PRESENT

2

- Played as goalkeeper in the Tier VII-Landesliga Mittelbaden (Baden's Football State League) between 2014 and 2016.
- Played various positions in the Uni-Liga Karlsruhe the student soccer competition between all higher education institutions in Karlsruhe.