

Steven Koch

Marchlewskistraße 96, 10243 Berlin

+49 170 1470449

steven.johann.koch@googlemail.com

Professional Experience

DevOps Engineer - DB Systel GmbH

August 2019 - Present

- Developed and automated IT Core Services in cloud environments, focusing on standardization and DevOps practices.
- Led design and implementation of AWS-based architecture and infrastructure for projects like 'Network Abstraction Layer' and 'Technology Leap Network.'
- Integrated Cisco NSO into system landscapes and developed backup and monitoring concepts.
- Created custom asynchronous APIs using AWS Lambda, Python, and Step Functions.
- Built CI/CD pipelines and developed Docker images for deployment.
- Collaborated across teams to define software architecture and ensure smooth cross-functional communication.
- Acted as deputy Product Owner, representing team interests and supporting the cluster.

Software Developer - DB Systel GmbH

February 2017 - July 2019

- Focused on cloud-based software development, primarily in Java.
- Automated cloud infrastructure using AWS CloudFormation and implemented configuration management with Chef and AWS OpsWorks.
- Contributed to DB Enterprise Cloud Service by creating modular AWS resource offerings compliant with internal standards.

Intern and Thesis Student - DB Systel GmbH

May 2016 - December 2016

- Conducted research and prototyped a location-based messaging service using AWS services such as Lambda, SNS, SQS, and DynamoDB.
- Developed a serverless architecture for an Android application as part of a Bachelor's thesis.

Education

Bachelor of Science in Computer Science

Hochschule für Technik und Wirtschaft Berlin

March 2013 - December 2016

- Final Grade: 2.0
- Thesis: 'Prototypical Development of a Location-Based Service for Personal Message Exchange Using Cloud Computing Services.'

Certifications & Training

- iSAQB Certified Professional for Software Architecture (Foundation Level) - October 2023
- AWS Certifications: Architecting on AWS, Developing on AWS, CloudFormation on AWS, Migrating to AWS

Skills

- Cloud & Infrastructure: AWS, Infrastructure-as-Code, Cloud-native systems
- Integration: API design, asynchronous communication, standardization
- DevOps: CI/CD, Build and deployment pipelines, configuration management
- Programming: Object-oriented programming, Java, Python
- Tools: Docker, Chef, AWS Lambda, AWS CloudFormation

Personal Projects

Home Automation: Event-driven programming approach for home automation using Home Assistant and Python

GitHub: <https://github.com/stevius10/HAConfig-as-PyCode>

Languages

- German: Native
- English: Fluent