Florian Kasper

Software and DevOps Engineer

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Innovative Cloud-Native Developer and DevOps Engineer with extensive experience working in the design and implementation of complex IT systems. Possess in-depth understanding of various system architecture and software delivery processes. Excellent project manager well-versed in engaging with strategic customers to accelerate the delivery of mission-critical projects, as well as recommend best-practice architectures in accordance with their long-term business objectives. Effective communicator adept at cultivating technical relationships with customers, and functioning as their trusted advisor. Proven ability to apply a systematic problem-solving approach in addressing bugs, optimizing code, and automating routine tasks.

Place of work	Germany – Preferred: Southern Germany, Austria or Remote
Languages	English and German
Availability	6/1/2025 (1.6.2025)
Competencies and Skills	Development and design of scalable architectures and stacks using bleeding edge as well as well established tools and languages like Go, Kubernetes, Helm and Terraform
	Backend-Development using Go(lang), Typescript, Ruby, PHP
	Frontend-Development with React.JS
	Asynchronous and distributed platforms Kafka, Pub-Sub, Queues und GRPC
	Setup and administration of on-premise and cloud based environments using Infrastructure-as-Code (IaC) or automation tooling like Saltstack and Ansible
	Collaborate on Architecture and the development of microservice platforms on Bare-Metal, Kubernetes, AWS and Google Cloud Platform
Industry Know-How	Tech, Online Retail, Utilities, Sports, Industrials, Defense, Marketing
Previous Responsibilities	Software Architect / Software Developer / Dev-Ops / Platform Engineering
Education	until 2011 Middle Grade from staatl. Realschule Höchstadt a.d. Aisch
	until 2014 Apprenticeship at Berufsschule Erlangen
Certifications	AWS Certified Solutions Architect - Associate (SAA)

IT-Knowledge

+++ excellent Knowledge, acquired through years of project work

++ very good knowledge, acquired through at least one longer project assignment

+ basic knowledge, e.g. through prototypes or occasional use

Programming Languages	Go(lang) (+++), Python (+++), Typescript / Javascript (+++), Ruby (+++), PHP (++), Java (+), SQL (+)
Protocols	GRPC (+++), OAuth (+++), OpenID Connect / OIDC (+++), HTTP (+++), Protobuf / GRPC (+++), SMTP (++), Kafka (+), WebRTC (+)
Compute	Kubernetes (+++) with CRI-O / Docker / Kata, Fargate / ECS (+++), AWS Lambda (+++), Linux / MacOS administration in on-premise environments
Observability	Prometheus (++), EFK-Stack (Elasticsearch, Fluentd, Kibana) (++), AWS Cloudwatch (+++), Datadog (++), Grafana (++)
IaC - Infrastructure as Code	Cloudformation (+++), Terraform (+++), AWS CDK (+++), Azure ARM (++), Ansible (++), Puppet (++)
Cloud Providers	Amazon Web Services (AWS) (+++), Google Cloud Platform (++), Microsoft Azure (++)
Databases	PostgreSQL / CockroachDB (++), MySQL (++), Cassandra (+), Elasticsearch(++), Redis (++)
OS	Linux (in particular Debian, RHEL, CentOS, Ubuntu, Arch and Alpine) (+++), OsX (+++) and Windows (++)
Methodologies	Git (+++), Scrum (+++), KanBan (+++), Test-Driven-Development (TDD) (+++)
Frameworks, Testsuites	Go test (+++), Kubebuilder (+++), React.js (+++), Next.js (+++), Ruby on Rails (+++), Jest(+++), ZeroMQ (++)

Project History

10/2024 -	**Staff Software Developer for Wilde-IT**

Design and Development of a Multi-Stage, Workflow based Data Processing Pipeline

By using multiple, independent adapters, we managed to allow our client to add in new datasources or targets on demand

By using filters and middleware processors, we managed to route and process the incoming files according to the clients demands

05/2024 - 10/2024	**Dev-Ops and Platform-Engineer for Teleson AG**

By implementing unix level automation, on premise and on AWS, we were able to reduce the downtime during incidents and improve the deployment time of all company owned servers.

By changing the deployment method from manually provisioned servers and infrastructure to industry best practices (Infrastructure as Code - via CDK) I was able to increase the reliability and boost team confidence when deploying code changes

By implementing a CI/CD deployment system on GitHub Actions we were able to reduce the amount of interactions that admins had to go through during deployment

By introducing the company to containerized architecture (i.e. Kubernetes or more precise EKS) and deployments, we could reduce the time to deploy and deploy applications in isolation. Deployment times changed from around 30min for a full EC2 instance rebuild to less than 2min.

05/2018 -	**System Architect and Dev-Ops for Juratherm GmbH**

Concept and implementation of the companies runtime infrastructure, account and runtime security on AWS, including the migration of critical infrastructure during runtime by leveraging modern Infrastructure as Code techniques (CDK, Cloudformation).

Design and Develop microservice authentication patterns using OAuth/OpenID Connect and SAML in Go using Smartcards/Yubikeys in Go

Development of a distributed, GRPC based printspooler and server in Go

multiple, latest 10/2022 - 06/2024	**Software Developer and Dev-Ops for EnBW AG**

Design and develop a distributed, grpc based system in go to automatically update all linux servers in the companies backend networks in regular intervals.

Develop a headless (automated) saltstack-based command execution engine in go, which can run commands on remote servers securely.

With custom-built go tooling, a bare-metal kubernetes cluster could be deployed in under 2 minutes compared to the previous time of 30 minutes when using kubespray. The kubernetes components are deployed in an existing kubernetes cluster, once per sub-cluster.

Design and configure runtime security software for intrusion- and attack vector detection during the runtime of a linux process within kubernetes.

06/2019 - 11/2019, 07/2021 - 08/2022

Software Developer and Dev-Ops for Scout24 AG

Built kubernetes custom resources and controllers in go, which offer a single, standardized interface for metrics, alerts, automatic scaling and user-facing communication endpoints for internal developers. This decreased the deployment time from an average of 15 minutes to a mere 3 minutes and unrecoverable deployment failures, from an average of 1% to below 0.1%.

Built automatic backup and restore pipelines for 5 clusters using velero. By building a custom UI, this process wraps the velero custom resources and allows for services to be moved across clusters in under 1 minute, well within the 1 hour RTO.

During the process of an organizational carve-out, that I participated in - 150 services (of the back then 600 services) were moved - without downtime - into new organizational structures. Services were including relational databases, AWS account resources, kubernetes controllers and service deployment resources.

08/2023 - 02/2024

Dev-Ops for Klingel K - Mail Order GmbH & Co. KG

Interim System Administration of the return departments applications using Ansible, Ubuntu and Kubernetes

Service migration of Nexus, EFK/ELK and Monitoring solutions to a new in-house hosting solution

Reliability improvements and establishing automated backups for the in-house hosted databases

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08/2022 - 01/2023

Site Reliability Engineer for ADB Safegate

Designed and enhanced a standardized helmfile-based deployment pipeline for quickly deploying kubernetes clusters with a standardized setup across different environments, platforms and infrastructure

Support and guide the in-house development team with kubernetes training and scalable and fault-tolerant architecture patterns

12/2021 - 03/2022

Dev-Ops / Platform Engineer for IONOS SE

Help to build and maintain a Kubernetes PaaS offering for > 10000 customers. Tooling is fully written in go and automatically tested using CI and build pipelines

08/2020 - 09/2021

AWS Architect / SRE for AMAN Media GmbH

Develop an architecture for scaling a PHP web application and asynchronous backend tasks

Introduce Infrastructure-as-Code (IaC) to the developers and build automated CI deployment pipelines and infrastructure in Jenkins

Introduce and establish Opsgenie for alert routing and triage and connect it to the production environment

07/2020 -

Dev-Ops / SRE for Baxter International

Established reliable operation of 3 - AKS - kubernetes clusters in a development team of 400 developers, previously only accustomed to on premise deployments.

Migrated 25 java-based apps to containers, automated github workflows and helm deployments for lifecycle management. This decreased the lead and deploy time for software changes from multiple hours to a maximum of 5 minutes.

Migrated the company's source code management system with 230 repositories from Bitbucket to GitHub enterprise. Strengthened security through the use of SAML, 2-factor authentication and SCIM based user provisioning.

Created tools in go and typescript for engineering managers to self manage their team members and to enable role based access control for each of these applications within Azure AD.

11/2019 - 04/2020

Software Developer for AutoScout24 GmbH

Develop a React.JS based frontend using Typescript for an online car selling platform, where car dealers can view and manage their active listings and see their performance numbers

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01/2018 - 06/2019	**Software Developer and SRE for 100 days Software Projects GmbH**

Develop an office-suite-like (Excel, Word) solution frontend for small-to-medium-sized businesses using React.JS and Typescript

Concept and Development of a Google-Drive like storage service. Frontend is written in React.JS, backend in Go

Concept, Development of a thumbnail generator in go. Storage is based on AWS S3. Multiple, asynchronous processing pipelines and fan-out worker patterns

Concept and Architectural-Design as well as Development of a web-based password manager

Concept and Realisation of a Hosting and CI infrastructure on-premise using kubernetes. Automation using ansible |
| 03/2016 - 12/2019 | **Software Developer and SRE for seven point.media GmbH & Co. KG**

Aid in the development of fitness center management software, which is used by 600 clients in 10 countries. Development of the backend happened in PHP, whilst the frontend was React.JS based

Build and maintain a platform product on AWS/EKS for enabling developers easy build and deploy to their PHP app in < 5min |
| 03/2016 - 06/2016 | **Consultant and React Coach for ERAMON GmbH**

Coach developers on React

Integrating React into the company's legacy software platform |
| 03/2015 - 06/2016 | **Software Architect and Developer for VATC Technologies Inc.**

Design and architecture of a platform for secure storage and analysis of biometric data sets (fingerprints, iris, PII) using Ruby on Rails in the backend and React.JS in the frontend, hosted on AWS

Design and architecture of a platform for automated aggregation and evaluation of activities in social networks. This process made use a mixed set of web scrapers, twitter firehose and other publicly available data, written in Ruby, which pumped their data into kafka and further into cassandra, where they could be adjusted by an exercise operator to include relevant information for an analyst to identify. |

01/2015 - 12/2016	**SRE for Corscience GmbH & Co. KG**
	Care, maintenance and servicing of the company's internal debian based server landscape. Automation was done using Puppet and Ansible
	Design and development of in-house software applications using mostly Ruby on Rails and Docker
	Consolidate 20 in-house web services into a docker based hosting platform to reduce total overhead on hosting and infrastructure maintenance
01/2015 - 03/2015	**Software Developer for XPANDMMI**
	Development of various platform modules for a CMS system
06/2014 - 12/2014	**Software Developer for Jacor Online Marketing**
	Development of an application to evaluate images and rate them

Project History

09/2011 - 12/2015   **System Administrator for Corscience GmbH & Co. KG**

Completed apprenticeship as IT specialist - system integration
from 6/14: freelance part-time job
from 03/15: full-time freelancer

Project History

GitHub   https://github.com/nirnanaaa