Florian Kasper
Lead Site Reliability 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	*7/28/2023*
Competencies and Skills	*Development and design of scalable cloud-architectures and stacks using cloud-native technologies like Kubernetes, Helm, Terraform and Knative.*
	Backend-Development using Go(lang), Node.JS, Ruby, PHP
	Frontend-Development with React.JS
	Asynchronous and distributed platforms Kafka, Redis und GRPC
	Setup and administration of local and cloud based environments using Kubernetes from scratch or Ansible; On Linux, Mac and Windows
	Collaborating on Software Architecture and Software Design for microservice platforms on Kubernetes, AWS and Google Cloud Platform.
Industry Know-How	*E-Commerce, Sports, Defense, IT, Marketing, Energy, Online*
Previous Responsibilities	*Software Architect / Lead SRE / Dev-Ops*
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

Compute	*Kubernetes (+++) with CRI-O / Docker / Kata, Fargate / ECS (+++), AWS Lambda (+++), plus ofc. bare Linux / Windows / MacOS Hosts*
Observability	*Prometheus (++), EFK-Stack (Elasticsearch, Fluentd, Kibana) (++), 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 (++)*
Programming Languages	*Go (+++), Python (+++), Typescript / Javascript + ESnext (+++), Ruby (++), PHP (++), Java (+), SQL (+)*
Databases	*MySQL (++), PostgreSQL(++), Cassandra (+), Elasticsearch(++), Redis (++)*
OS	*Linux (in particular Debian, RHEL, CentOS, Ubuntu, Arch and Alpine) (+++), OsX (+++) and Windows (++)*
Protocols	*HTTP (+++), Protobuf (+++), SMTP (++), GRPC (++), Kafka (+), WebRTC (+), XMPP(+), JSONschema (+)*
Methodologies	*Git (+++), Scrum (+++), KanBan (+++), Test-Driven-Development (TDD) (+++)*
Frameworks, Testsuites	*Go test (+++), Kubebuilder (+++), React.JS (+++), Node.JS (+++), Ruby on Rails (++), Mocha(++), Jest(+++), Prometheus(++)*

Project History

multiple, latest 10/2022 -

Dev-Ops and SRE-Consultant for
EnBW AG

- Design and develop system to automatically update all linux servers in the companies backend networks in regular intervals.
- Develop a headless (automated) command execution engine, 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 attack detection during the runtime of a linux process.

08/2022 - 01/2023

Site Reliability Engineer for
ADB Safegate

- Designed and enhanced a standardized 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

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

Platform Engineer for
Scout24 AG

- Built a kubernetes custom resource and controller in go, which offers a single, standardized interface for metrics, alerts, automatic scaling and user-facing communication endpoints. 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 carve-out, I participated in - 150 services (of the back then 600 services) were moved - without downtime - including relational databases, kubernetes controllers and resources.

12/2021 - 03/2022

Platform Engineer for
IONOS SE

- Build and maintain a Kubernetes PaaS offering for > 10000 customers.

08/2020 - 09/2021

AWS Architect / SRE for
AMAN Media GmbH

- Develop an architecture for scaling a PHP application
- Introduce Infrastructure-as-Code (IaC) to the Developers
- Build out automated deployment pipelines
- Introduce and establish Opsgenie for alert routing and triage

07/2020 -

SRE for
Hill-Rom

- 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.

05/2018 -

System Architect and SRE for
Juratherm GmbH

– Infrastructure automation
– Concept and Realisation of the general infrastructure
– Design and integrate Backup and Desaster recovery plans

11/2019 - 04/2020

Frontend Developer / Platform Engineer for
AutoScout24 GmbH

– Develop React.JS for an online car selling platform
– Support with organising and executing an organisational carve-out
– Develop multiple kubernetes controllers, platform infrastructure, disaster recovery and security policies from scratch

01/2018 - 06/2019

Software Developer and SRE for
100 days Software Projects GmbH

– Develop an office solution for SMB
– Develop and design an E-commerce app from scratch
– Concept, Architectural-Design and development of a password manager
– Concept and Realisation of a Hosting and CI infrastructure
– Concept, Development of a Google-Drive like storage solution
– Concept, Development of a thumbnail generator

03/2016 - 12/2019

Software Developer and SRE for
seven point.media GmbH & Co. KG

– Build a cash registry and client management system for fitness centers in React.JS, which is used by 600 clients in 10 countries.
– 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
– Design and architecture of a platform for automated aggregation and evaluation of activities in social networks

01/2015 - 12/2016

SRE for
Corscience GmbH & Co. KG

– Care, maintenance and servicing of the company's internal server landscape
– Design and development of in-house software applications
– Consolidate 20 in-house web services into a docker

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

Permanent Positions

09/2011 - 12/2015	– Completed apprenticeship as IT specialist - system integration
	– from 6/14: freelance part-time job
	– from 03/15: full-time freelancer

Open-Source Engagement

| GitHub | https://github.com/nirnanaaa |