Florian Kasper

Software and DevOps Engineer

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Freelance software engineer and platform architect since 2015, focused on Go, Kubernetes and AWS. I build distributed systems, internal platforms and automation tooling — typically in environments with hundreds of developers and thousands of services. Most of my work sits at the intersection of backend development and infrastructure: custom Kubernetes controllers, CI/CD pipelines, cloud migrations and developer tooling. I care about keeping things simple, reliable and easy to operate.

Place of work	Germany – Preferred: Southern Germany, Austria or Remote
Languages	English and German
Availability	4/1/2026 (1.4.2026)
Competencies and Skills	System architecture and technical design of distributed platforms and microservice systems
	Backend development in Go, Typescript, Ruby, PHP
	Kubernetes operators, custom controllers and CRDs
	Cloud infrastructure on AWS, GCP and Azure with IaC (CDK, Terraform, CloudFormation)
	CI/CD pipelines, container orchestration and platform engineering
	Distributed systems with gRPC, Kafka and async messaging
	On-premise and bare-metal Kubernetes clusters
	Frontend development with React.JS
Industry Know-How	Finance, Healthcare, Utilities, Manufacturing, E-Commerce, 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 · Financial

Golang, Kubernetes

- Built a Kubernetes-native file integration platform in Go, distributed across core services and remote agents, processing around 10,000 jobs per minute
- Workflow engine based on a state machine with retry, cancellation and flow control between core and agents
- Pluggable protocol adapters for SFTP, SMTP and local filesystems — new sources or targets plug in without touching the core
- gRPC middleware chain for filtering, selective compression, PDF conversion, tokenization and templating
- PostgreSQL-backed job queue with stream-based S3 file transfer for reliable delivery under failure
- Kubernetes CRDs and controllers for workflow management, RBAC with multi-tenancy and enterprise auth via LDAP, OIDC and SAML

05/2024 – 10/2024

Dev-Ops and Platform-Engineer for Teleson AG · Marketing

AWS, Golang, Saltstack

- Built a Go-based automation infrastructure for on-premise and AWS environments to address frequent incident downtime, reducing recovery time and providing full visibility into all deployed services
- Migrated manually provisioned servers and infrastructure to Industry best practices (Infrastructure as Code via CDK), increasing deployment reliability and boosting team confidence in production changes
- Introduced CI/CD pipelines on GitHub Actions to eliminate manual deployment steps, reducing the number of required admin interactions per deployment to near zero
- Led the adoption of containerized architecture on EKS to replace slow EC2 instance rebuilds, cutting deployment time from over 30 minutes to under 2 minutes

05/2018 -

System Architect and Dev-Ops for Juratherm GmbH · Industrials

Kubernetes, AWS, Ansible, CUPS, Slack, CSI

- Designed and executed a zero-downtime migration of the company's critical on-premise infrastructure to AWS using CDK and CloudFormation, establishing a fully codified and reproducible cloud environment

- Developed a distributed, GRPC-based print spooler and server in Go to automate manufacturing label printing, replacing a fragile manual process

- Implemented microservice authentication using Smartcards and Yubikeys with OAuth/OpenID Connect in Go, securing access across distributed services

multiple, latest 10/2022 - 06/2024

Software Developer and Dev-Ops for EnBW AG · Utilities

Golang, Kubernetes, Harbor, AWS, Gitlab, Vmware vRa/vRo

- Designed and developed a distributed, GRPC-based patch management system in Go to automatically update all Linux servers across the company's backend networks, replacing a previously manual and error-prone process

- Built a headless Saltstack-based command execution engine in Go, enabling secure and auditable remote command execution across hundreds of servers

- Reduced bare-metal Kubernetes cluster provisioning time from 30 minutes (kubespray) to under 2 minutes by developing custom Go tooling deployed within an existing management cluster

- Configured Palo Alto Prisma runtime security for intrusion and attack vector detection within Kubernetes workloads, strengthening the company's security posture for containerized environments

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

Software Developer and Dev-Ops for Scout24 AG · Online

Kubernetes, Golang, AWS, CDK

- Built Kubernetes custom resources and controllers in Go to provide a standardized interface for metrics, alerts, and autoscaling for internal developers, reducing average deployment time from 15 to 3 minutes and unrecoverable deployment failures from 1% to below 0.1%

- Implemented automated backup and restore pipelines for 5 Kubernetes clusters using Velero with a custom UI, enabling cross-cluster service migration in under 1 minute — well within the 1-hour RTO requirement

- Executed a zero-downtime organizational carve-out, migrating 150 of 600 services — including relational databases, AWS account resources, and Kubernetes workloads — into new organizational structures without service interruption

08/2023 - 02/2024

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

Ansible, Kubernetes, Ubuntu, K3s, PostgreSQL

- Took over interim system administration of the returns department's application stack using Ansible, Ubuntu, and Kubernetes, ensuring operational continuity during a staffing gap
- Migrated Nexus, EFK/ELK, and monitoring solutions between in-house data centers with minimal disruption, establishing a modernized observability pipeline
- Implemented automated backup strategies for in-house hosted PostgreSQL databases, closing a critical gap in data protection

08/2022 - 01/2023

Site Reliability Engineer for ADB Safegate · Manufacturing

Kubernetes, Golang, Rancher, On-Premise

- Designed and led development of a standardized Helmfile-based deployment pipeline, enabling reproducible and offline-capable Kubernetes cluster provisioning across heterogeneous edge environments
- Trained and mentored the in-house development team on Kubernetes operations and fault-tolerant architecture patterns, accelerating the team's ability to independently manage production workloads

12/2021 - 03/2022

Dev-Ops / Platform Engineer for IONOS SE · Online

Kubernetes, Golang

- Contributed to building and maintaining a Kubernetes PaaS serving over 10,000 customers, developing and validating all Go-based tooling through automated CI pipelines

08/2020 - 09/2021

AWS Architect / SRE for AMAN Media GmbH · Online

AWS, Python, Lambda

- Architected a scalable AWS hosting solution for a PHP web application with asynchronous background task processing, enabling the platform to handle growing traffic without manual intervention
- Introduced Infrastructure as Code and automated Jenkins deployment pipelines, enabling developer self-service deployments and eliminating manual provisioning steps
- Established Opsgenie-based on-call alerting integrated with the production environment, reducing incident response time through structured alert routing and triage

07/2020 –

Dev-Ops / SRE for Baxter International · Healthcare

Azure, Kubernetes, Golang, React.JS, GitHub Enterprise, GHEC

- Established reliable operations for 3 AKS Kubernetes clusters supporting 400 developers transitioning from on-premise deployments, creating standardized workflows and runbooks for the new platform

- Containerized 25 Java-based applications and automated GitHub workflows with Helm-based lifecycle management, reducing lead and deploy time for software changes from multiple hours to under 5 minutes

- Migrated the company's source code management system (230 repositories, 400 users) from Bitbucket to GitHub Enterprise, implementing SAML, 2-factor authentication, and SCIM-based user provisioning to strengthen security

- Built self-service tools in Go and TypeScript enabling engineering managers to manage team membership and role-based access control within Azure AD, eliminating manual IT tickets for access changes

11/2019 – 04/2020

Software Developer for AutoScout24 GmbH · Online

React.JS, AWS, Golang

- Developed a React.JS/TypeScript frontend for an online car selling platform, enabling car dealers to manage their active listings and monitor performance metrics in real time

01/2018 – 06/2019

Software Developer and SRE for 100 days Software Projects GmbH · Online

React, Kubernetes, Golang, Codeship, Google Cloud Platform, Kafka, Node.JS, Jira, Linux, Nginx, MySQL, PostgreSQL

- Developed an office-suite-like collaboration frontend (Excel, Word) for small-to-medium-sized businesses using React.JS and TypeScript, providing a browser-based alternative to desktop productivity tools

- Built a Google-Drive-like cloud storage service with a React.JS frontend and Go backend, supporting real-time file management and sharing

- Designed and implemented a thumbnail generator in Go with S3-based storage, leveraging asynchronous fan-out worker pipelines for high-throughput image processing

- Architected and developed a web-based password manager using React.JS, Go, and WebAssembly, enabling client-side encryption for secure credential storage

- Built on-premise Kubernetes hosting and CI infrastructure with Ansible-based automation, providing the team with a self-managed deployment platform

03/2016 – 12/2019

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

React, PHP, Kubernetes, AWS, GitHub

- Co-developed fitness center management software used by 600 clients across 10 countries, building the PHP backend and React.JS frontend for membership and device management
- Built and maintained an AWS/EKS platform product enabling developers to build and deploy PHP applications in under 5 minutes through self-service pipelines

03/2016 – 06/2016

Consultant and React Coach for ERAMON GmbH · Industry Supply

React, Webpack, Node.JS, Sass

- Coached internal developers on React.JS adoption and modern frontend best practices, enabling the team to independently build and maintain React components
- Integrated React components into the company's legacy software platform, modernizing the user experience without requiring a full rewrite

03/2015 – 06/2016

Software Architect and Developer for VATC Technologies Inc. · Defense

React, Node.JS, Apache, Ruby on Rails, PHP, Docker, Linux, AWS, Elasticsearch, Cassandra, ArcGIS

- Designed and built a platform for secure storage and analysis of biometric data (fingerprints, iris, PII) using Ruby on Rails and React.JS on AWS, meeting strict security requirements for sensitive data handling
- Architected a social network intelligence aggregation platform using web scrapers, Twitter Firehose, and Kafka pipelines feeding into Cassandra, enabling exercise operators to inject training scenarios and analysts to practice identification workflows

01/2015 – 12/2016

SRE for Corscience GmbH & Co. KG · Healthcare

Debian Linux, Ansible, Docker, VMware, Ruby on Rails, React

- Administered and automated the company's Debian-based server landscape using Puppet and Ansible, reducing manual maintenance effort and improving consistency across environments
- Developed in-house software applications using Ruby on Rails and Docker, delivering internal tools to streamline business operations
- Consolidated 20 web services into a Docker-based hosting platform, reducing total infrastructure overhead and simplifying deployment workflows

01/2015 – 03/2015	**Software Developer for XPANDMMI · Online**
	PHP, Apache, MySQL, Ruby on Rails
	• Developed various platform modules for a CMS system in PHP and Ruby on Rails, extending the platform's functionality for client-specific requirements
06/2014 – 12/2014	**Software Developer for Jacor Online Marketing · Online**
	PHP, React
	• Designed and developed an image evaluation and rating application in PHP and React, enabling users to upload, review, and score visual content

Employment

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

Links

GitHub	https://github.com/nirnanaaa