

# 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	<p>System architecture and technical design of distributed platforms and microservice systems</p> <p>Backend development in Go, Typescript, Ruby, PHP</p> <p>Kubernetes operators, custom controllers and CRDs</p> <p>Cloud infrastructure on AWS, GCP and Azure with IaC (CDK, Terraform, CloudFormation)</p> <p>CI/CD pipelines, container orchestration and platform engineering</p> <p>Distributed systems with gRPC, Kafka and async messaging</p> <p>On-premise and bare-metal Kubernetes clusters</p> <p>Frontend development with React.JS</p>
Industry Know-How	Finance, Healthcare, Utilities, Manufacturing, E-Commerce, Defense, Marketing
Previous Responsibilities	Software Architect / Software Developer / Dev-Ops / Platform Engineering
Education	<p>until 2011 Middle Grade from staatl. Realschule Höchststadt a.d. Aisch</p> <p>until 2014 Apprenticeship at Berufsschule Erlangen</p>
Certifications	AWS Certified Solutions Architect – Associate (SAA)

## IT-Knowledge

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+++ 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

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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

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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

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GitHub

<https://github.com/nirnanaaa>