Markus Köbele

Software Engineer, DevOps, Full-Stack

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Recent Projects

2026-07–present **On premise agentic AI for Source Control Management platforms**, *Software Engineer*

Design and implement an automated Issue-to-PR-integration for Github, GitLab and Forgejo, including self hosted agentic AI integration for Kubernetes and On-Premise hardware. (Rust, AI, Open Weight Models, LLM, Agentic Development, Gitlab, Github, Forgejo, Kubernetes)

2026-01–2026-06 **Matching platform for military non-combat support trucks and repair shops**, *Platform Engineer, Software Developer, Devops Engineer, DevEx Engineer for Undisclosed*

Setup a hardened Kubernetes environment and migrated a legacy web application onto the platform, including dockerization and CI/CD. Afterwards ported and modernized the legacy application to a state of the art software environment. (PHP, Typescript, Angular, Node.js, Docker, Kubernetes, k0s, Wireguard, MariaDB, PostgreSQL, Kubernetes Operators, Loki, Grafana, Prometheus, Alloy, Tempo, Open Telemetry, GitlabCI)

2017-03–2026-12 **Undisclosed Project**, *Software Engineer, DevOps Engineer, Scrum Master for Undisclosed Client*

Analyse, plan and implement a high availability SCADA as a service platform under KRITIS restrictions, while supporting to build a software development team (*undisclosed*)

2025-01–2025-10 **CROSSorCHECK - Learning app for pilots**, *Consultant, Software Architect, Devops Engineer for Easy Memory Item UG*

Led CI/CD implementation on a self-hosted Kubernetes cluster, managed app store releases, and coordinated development across multiple external project partners for a newly built application (Gitlab CI, ArgoCD, Docker, Kubernetes, MongoDB, TypeScript, Node.js, Angular, Expo, Firebase, RevenueCat, Google Play Store, App Store)

2023-09–2024-12 **CI/CD Pipeline on Kubernetes Basis**, *DevOps Engineer for steute Technologies GmbH & Co. KG*

Built a CI/CD infrastructure on customer hardware with the objective of achieving a stable, accelerated, and scalable workflow. Adaptation of existing CI steps for more stability and performance. Building SBOM generation (Kubernetes, GitLab, Grafana, helm, cdk8s, Docker, Harbor, TypeScript, NestJS, Node.js)

2021-07–2024-07 **Event-sourced bookkeeping software for companies**, *Software Engineer, Devops Engineer*

Developed a file-based event-sourced automation software for bookkeeping and invoice generation (TypeScript, Docker, Kubernetes, Helm, Grafana, Event Sourcing, XRechnung, Node.js)

2024-01–2024-06 **Charge Curve Optimizer**, *Software Architect, DevOps Engineer for SpotmyEnergy GmbH*

Developed a proof-of-concept charging-curve optimizer for a startup client while building the cloud-based CI/CD software infrastructure (TypeScript, Node.js, InfluxDB, Gitlab CI, Docker, Terraform, ArgoCD, Kubernetes, Amazon EKS, Google OR-Tools)

2024-01–2024-03 **On-Premise Deployment Platform for a Kubernetes based application**, *Software Architect, Devops Engineer*

Enabled customer to self-host the PIA App on their on-premise servers (Ansible, Kubernetes, k3s, Prometheus, Grafana, Alertmanager, Sealed Secrets, ArgoCD)

2022-03–2024-02 **EasyMemoryItem - Learning and support app for pilots**, *Software Engineer, DevOps Engineer for Easy Memory Item UG*

Migrated from manual deployments to a single webserver to automated CI/CD pipelines deploying to a on premise Kubernetes cluster and mobile app stores. Added several new features and integrations to the legacy codebase. (Gitlab CI, Docker, Feature Stages, Helm, Kubernetes, SQL, TypeScript, Ionic, Angular, Python, Django, Node.js)

2022-12–2023-12 **High Available Kubernetes Cluster**, *DevOps Engineer*

Developed of a concept for automated setup and operation of a cloud-provider agnostic highly available Kubernetes cluster (Wireguard, ArgoCD, Kubernetes, Helm, Authelia, nginx, DevOps, Node.js, TypeScript, High Availability, Redundancy, Domain Name Server)

2022-06–2023-09 **Hardware Simulator**, *Software Developer, DevOps Engineer for Hexagon Technology Center GmbH*

Developed a hardware simulator for verifying the firmware of coordinate measuring machines (C++, Python, CTest, Conan, Azure DevOps)

2013-04–2017-02 **SAP HANA Cloud Sync**, *Software Developer, Software Tester, Freelancer for G.I.B Gesellschaft für Information und Bildung mbH*

Developed an exporter and a test harness to sync business data from the legacy system to SAP HANA (Java, JUnit, Swing)

2012-04–2012-05 **Offline Tags**, *Software Developer, Freelancer for Internet und Gesellschaft Collaboratory by Google Deutschland*

Developed a proof-of-concept for real-time face blurring in photos depending on visible features a person might be wearing like special stickers or buttons. (C++, OpenCV, Qt)

2012-01–2012-10 **Portfolio Website**, *Web Developer, Freelancer*

Supported and developed a web application to present projects of architecture students (PHP, Javascript, SQL, HTML)

Education

2014–2016 **Master of Science**, *University of Siegen*

Computer Science Studies with Minor in Visual Computing

2009–2014 **Bachelor of Science**, *University of Siegen*

Computer Science Studies with Minor in Media

Skills

Programming Languages	Java, Typescript, Javascript, Python, PHP, C++
Databases	MongoDB, InfluxDB, MariaDB, PostgresDB, Cassandra, SQLite
Frameworks & Tools	Spring Boot, Quarkus, JavaFX, Maven, Node.js, Angular, Ionic, Gitlab CI, Jenkins, Github Actions, Azure DevOps, Protobuf, Helm, ArgoCD, Django, Docker, Prometheus, Grafana, RabbitMQ, HTML5, Ansible, Terraform, Amazon EKS
Operating Systems	Linux (Ubuntu), Windows
Data Communication	Distributed Systems, Client/Server, Streaming
Products, Standards	Kubernetes, High Availability, Redundancy, HTTP, REST

Organizational Skills and Practices	Scrum, Agile, Test-Driven Development, Property Based Testing, Clean Code

Languages

German	native
English	fluent