

Markus Köbele

Software Engineer, DevOps, Full-Stack

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Recent Projects

- 2017-03–present **Virtual Power Plant**, *Software Engineer, DevOps Engineer, Scrum Master for Next Kraftwerke GmbH.*
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, 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)
- 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)
- 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, npm, 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 Framework, Python, Django)
- 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, 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 Col-laboratory 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, 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