

Site Reliability Engineer & Cloud Native Software Engineer

Summary

Senior **Site Reliability Engineer/Cloud Native Software Engineer** with 10+ years of experience designing, automating, and operating large-scale cloud systems. Specialized in **GitOps, Kubernetes reliability, observability, and DevOps automation** across SAP BTP, Kyma, and Gardener environments. Passionate about declarative infrastructure, reliability engineering, and building self-healing developer platforms.

Core Competencies

- **Cloud & Platforms:** SAP BTP, Kyma, Gardener, Cloud Foundry, Azure
- **GitOps & Automation:** FluxCD, ArgoCD, Helm, Kustomize, Crossplane, ESO, Renovate
- **CI/CD & Tooling:** GitHub Actions, Jenkins, Azure DevOps, Argo Workflows, Piper
- **Reliability & Observability:** SAP BTP Cloud Logging (OpenSearch), SAP BTP Audit Log Service, Dynatrace, MS Teams Alerts, Prometheus
- **Languages & Dev Tools:** Go, Java, Python, Bash, Node.js, Docker, Terraform
- **LLM & AI Ops:** Llama, Ludwig, vLLM, Lorax, Azure OpenAI API, MCP, Semantic Search, Claude Code, OpenCode, SDD

Work Experience

May 2026 – **Senior Software Engineer, SAP SE, SAP Cloud Infrastructure, Munich**

- Present Contributing to bare metal provisioning for SAP's cloud infrastructure within the IronCore/Gardener ecosystem.
- Modernizing remote cluster delivery tooling and multi-cluster deployment workflows across Gardener seed/shoot and kubeinception topologies.

Nov 2021 – **Senior DevOps Engineer, SAP SE, SAP Business Network, Munich**

- Apr 2026 Led GitOps transformation for multi-cluster Kyma/Gardener environments (FluxCD, ArgoCD); contributed Helm chart building blocks to *openmcp-project/blueprint-building-blocks* OSS (Crossplane providers for SAP BTP, FluxCD, ESO).
- Built GitHub App *FlowKeeper* for PR governance, freeze windows, and deployment validation; managed CI/CD pipelines (GitHub Actions, Azure DevOps) with automated semantic versioning and supply chain security; contributed to SAP OSS tool *pull-request-semver-bumper*.
- Implemented code scanning (SonarQube, CodeQL, Whitesource) and Vault-based secret management via External Secrets Operator (cross-cluster).
- Developed Kubernetes operators (Go, Operator SDK) integrating cloud-native services with SAP BTP; delivered system DevOps for the Catena-X automotive data network.
- Centralized observability via SAP BTP Cloud Logging (OpenSearch), Audit Log Service, Dynatrace metrics integrated with ArgoCD health checks and MS Teams alerting.
- Experimented with LLM hosting and LoRA adapter serving (Llama, vLLM, Lorax on Kubernetes); built AI developer chatbot with semantic search and MCP tools (GitHub, Azure Pipelines).
- Adopted and customised *sdd-plus-superpowers* SDD schema, integrating AI-driven brainstorming, TDD, code review, and git worktrees into a structured delivery workflow with Claude Code and OpenCode.

Mar 2018 – **Senior Software Developer, SAP Customer Experience, Munich**

- Oct 2021 Designed and implemented backend microservices in Go and Node.js using OpenAPI, Docker, and Kubernetes.
- Maintained CI/CD pipelines (Jenkins) and end-to-end testing frameworks improving release consistency and build confidence.
- Conducted API stress tests with Locust, optimizing system performance under production-scale loads.
- Mentored junior developers and served as Scrum Master, ensuring delivery predictability and technical quality.

Jan 2016 – **System DevOps**, *Hybris Software GmbH*, Munich

- Feb 2018 ○ Delivered consultancy and operational support for internal private cloud platforms.
- Developed DevOps automation tools (Java Spring Boot, Bash, MySQL) to streamline environment provisioning and monitoring.

Sep 2011 – **Research Engineer**, *DOCOMO Communications Laboratories Europe*, Munich

- Dec 2015 ○ Conducted applied research in augmented reality and indoor localization, developing Android prototypes and DASH video streaming clients.
- Presented technology demos at major industry events including NTT DOCOMO R&D Open House 2011 (Japan).

Education

Jun 2009 – **Master of Engineering in Mobile Computing**, *National University of Singapore*, Singapore

- Aug 2011 ○ Published two Android games on Google Play Store
- Conducted research in augmented reality and mobile visualization, publishing 6+ conference papers and a book chapter
- Supervised undergraduate dissertations and received multiple awards, including the Splash Award from the Singapore Computer Society

Sep 2006 – **Bachelor of Engineering in Computer Engineering**, *National University of Singapore*, Singapore

- May 2009 ○ Received Dean's List award in 2006 and 2009

Interests

Cloud automation, Kubernetes, system reliability, AI agents, travel, food