

MICHAEL REINHOFFER

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EDUCATION

Otto-Friedrich-Universität Bamberg

Bamberg, DE

M.Sc. Information Systems (Wirtschaftsinformatik), completed alongside full-time work as Senior Cloud Architect Oct 2022 – Jun 2025

- Master's thesis: *Infrastructure as Code with AI: A Design Science Research Approach for an Automated Code Review Solution*; grade 1.3 (German scale, 1.0 = best)

Duale Hochschule Baden-Württemberg (DHBW)

Villingen-Schwenningen, DE

B.Sc. Information Systems (Wirtschaftsinformatik)

Jan 2018 – Sep 2021

PROFESSIONAL EXPERIENCE

MLP Finanzberatung SE (BaFin- & DORA-Regulated Financial Institution)

Wiesloch, DE

Senior Cloud Architect

Oct 2021 – Present

- Design, build, and operate multi-cloud infrastructure (Azure, GCP, Open Telekom Cloud) IaC-first with Terraform, on the platform since its greenfield start in 2018, with first-hand knowledge of what it takes to build cloud infrastructure at scale
 - Developed 15+ reusable Terraform modules that the platform's landing zones and workloads are composed from
 - Built and production-proved disaster recovery: automated backup and restore for VMs, databases, and object storage, verified with regular restore tests
 - Set up centralized logging for platform and workloads, serving day-to-day operations and audit evidence alike
- Designed and built a **Symphony** adaptation, an agentic pipeline in a BaFin/DORA-regulated estate that turns a Jira ticket into a reviewed merge request: an orchestrator polls and reconciles the ticket queue, dispatch gates (allow-list, blockers, concurrency, retry backoff) admit work to agents in isolated per-ticket workspaces, and multi-repo tickets are decomposed across parallel repo-scoped workers, cutting cycle time on unambiguous tickets by ~30%
- Shipped full audit and observability for agent runs: results written back to Jira (comments, PR/MR links, status transitions, labels) plus a dashboard, metrics, and logs, with all three kept consistent
- Delivered an Open Telekom Cloud migration with full IaC (IAM, VMs, object storage, platform databases, hub-and-spoke networking with FortiGate HA firewalls, dual-AZ, cross-tenant GitLab CI access) in ~3 months with a team of two
- Built a drift detector that analyzes CI pipeline state and cloud resource configuration, flagging failures and config changes as compact reports
- Mapped the AI coding-tooling landscape (Claude Code, GitHub Copilot, Vertex AI, Azure AI Foundry) against BaFin/DORA: EU data residency, zero data retention, subprocessor-chain analysis, shadow-IT risk
- Drive FinOps and cloud cost optimization across a mid seven-figure annual spend

Dual Student, Cloud Infrastructure (B.Sc. co-op program with DHBW)

Jan 2018 – Sep 2021

- Joined the cloud platform at its 2018 greenfield start and was quickly trusted with production Terraform and infrastructure work, an early key contributor while still a dual student

PROJECTS

Nocturne (Open-Source Agent Tooling)

2026

- A Claude Code skill that turns a repo and a checkbox backlog into a self-verifying overnight dev loop with quality gates. Dogfooded: parts of michaelreinoffer.lol were shipped by Nocturne runs

Ghostline (Reinforcement Learning Lab)

2026

- Deterministic 2D racer with a PPO-trained driver taken from wall-stalls to a 3.948s lap, plus the replay and analytics stack to prove how it learned; playable challenge in the case study

SKILLS

- **Cloud & Infrastructure:** Azure, GCP, Open Telekom Cloud, Terraform, Docker, Kubernetes (GKE), GitLab CI/CD, IAM, hub-and-spoke networking, backup & restore
- **AI / ML:** agent orchestration & governance, model routing (Claude, GPT), RAG & retrieval, evaluation, reinforcement learning (PPO), prompt & workflow design
- **Programming:** Python (production, strict typing), TypeScript, Next.js, React Three Fiber
- **Governance & FinOps:** BaFin & DORA compliance, EU data residency analysis, cloud cost optimization
- **Languages:** German (native), English (C1)