Roman Windpassinger



DevOps & AI Engineer — Infrastructure Automation, Observability & Self-Hosted AI

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PROFILE

DevOps and AI Engineer with 20+ years in software engineering and infrastructure operations, specializing in cloud-native platforms, infrastructure automation, observability, and self-hosted AI. I design, implement, and operate reliable platforms across Proxmox VE, VMware vSphere, Docker, Kubernetes (Helm), and Red Hat OpenShift, and deliver change through CI/CD and GitOps workflows with GitHub Actions, GitLab CI/CD, Bitbucket Pipelines, and Argo. My work combines hands-on software engineering, metrics-driven operations, low-noise monitoring and alerting, and secure automation. I build self-hosted LLM and agent platforms with MCP/tool-calling, GPU inference, and n8n workflow automation, grounding AI architecture in classical statistics, machine learning, and production-quality engineering.

WORK EXPERIENCE

A1 Telekom Austria AG — Software Engineer **Jan 2005 – present**

A1 Telekom Austria AG, Vienna, Austria · Hybrid

Areas of responsibility: Billing Operation & Automation · Virtualization & Hypervisors · Workload & Smart Home Automation (Automic/UC4) · DevOps & AI Engineering — Automation, Observability & Self-Hosted AI · CI/CD & GitOps · Monitoring & Observability

- Core Network & Observability (2023 – present): metric data ingestion, big-data storage, query, transformation and reporting; alarming, data lineage and incident management; operating and extending metric/observability pipelines end-to-end.
- Billing Operation (2005 – 2022): automation, reporting, monitoring, organisation and deployment of billing operations; KPI reporting, 2nd and 3rd level support, and on-call duty; file-based interfaces and cross-system processing between billing components.

cobweb gmbh — CTO **Jun 2003 – Jun 2004**

cobweb gmbh, Vienna, Austria · On-site

- Technology management and technology governance.

create.at — Co-CEO & Chief Technology Officer (CTO) **Jan 1999 – May 2003**

create.at, Vienna, Austria · On-site · Self-employed

- Technology management and technology governance.

REFERENCE PROJECTS

A1 Fixed Network Billing / Interfaces
Automation of workflows and interfaces, KPIs, monitoring and reports.

A1 Mobile Billing
Infrastructure and deployment.

BMI
Security and project analysis of the existing BMI KPI and monitoring processing implementation.

Core Network
Ingestion of Core Network data into the ELK Stack.

Proof of Concept — Solution Architect AI & Data / AI Agents and Knowledge
PySpark reads OpenSearch metrics into a medallion lakehouse (bronze / silver / gold) with a feature store; classical ML forecasting and RAG analysis over KPI time series behind an AI prompt web UI.

Self-Hosted LLM
Self-hosted LLM setup (Llama, Mistral, Qwen, DeepSeek).

EDUCATION

HTL Spengergasse (HTBLuVA Wien 5) **1992 – 1997**

Höhere Technische Bundes-Lehr- und Versuchsanstalt (Federal Technical College), Vienna, Austria

SKILLS

Advanced AI Architectures
AI-supported code generation — AI-assisted and vibe-coded development workflows.
CI/CD & Cloud Deployment
Classical Statistics & Machine Learning
Core Software Engineering & Code Quality
Low-code / No-code AI Automation — n8n and visual AI-agent workflows.

AI & Intelligent Agents: Kandev AI agent; project-evaluation PoC for DevOps/AIOps work; vibe-coding with MD files in OpenCode; Claude Code (Qwen 3.8 27B MTP, DeepSeek v4 Flash, OpenRouter); tool-calling; MCP servers; VS Code with Claude Code and GitHub Copilot.
LLM & Model Self-Hosting: llama.cpp, Ollama, vLLM; NVIDIA CUDA (multi-GPU), AMD GPU/ROCm.
CI/CD & GitOps: GitHub Actions, GitLab CI/CD, Bitbucket Pipelines, ArgoCD, Argo Workflows, Argo Rollouts, Git (SVN, WebDAV), JFrog Artifactory; GitOps pipelines for OpenShift and Kubernetes.
Project Management & Collaboration: Jira, Confluence (Atlassian).
Cloud-Native & Containers: Kubernetes (Helm), Red Hat OpenShift, Docker, Docker Hub, Docker Registry (image server), Traefik (reverse proxy / ingress).
Virtualization & Hypervisors: Proxmox VE (LXC, Ceph, GPU passthrough); VMware ESXi (vSphere, vCenter); VM management with Portainer, Lens.
Cloud Platforms & Hosting: AWS, IONOS, Hetzner, Exoscale (API, load balancer), Netcup.
Object Storage / S3: S3 buckets (AWS & Exoscale); Ceph (S3-compatible).
Workload Automation: Automic (UC4), n8n (WebSockets, AI-agent automation); Home Assistant automation.
Smart Home & IoT: Home Assistant, MQTT, Zigbee, Matter, Whisper (GPU voice).
Storage & Backup: ZFS, LVM, NFS, Ceph cluster, rsync backup strategy.
Linux & Operating Systems: Ubuntu, Debian, Red Hat, CentOS, Rocky Linux.
Monitoring & Observability: Grafana, Prometheus (PromQL), VictoriaMetrics (vmagent), Prometheus Alertmanager; Zabbix, Nagios, Icinga, cAdvisor, Glances, Wetty, nmon, SNMP metrics.
Big Data & Observability: Elasticsearch / OpenSearch (Query DSL, ingest pipelines, index mappings), Logstash, Telegraf, Fluent Bit.
Data Engineering & Lakehouse: PySpark medallion lakehouse (bronze / silver / gold) with feature store; ML forecasting and RAG over KPI time series behind an AI prompt web UI (proof of concept).
Networking & VPN: WireGuard, OpenVPN, IPsec, SSL; Cubro Packetmaster (network packet broker).
Firewalling & Routing: iptables, ipchains, firewalld, IPFire; NAT, VLAN, DHCP, routing.
Security & IAM: Authelia (SSO/2FA), fail2ban; SSH key pairs / authorized keys.
DNS & Reverse Proxy: Cloudflare, BIND, Nginx Proxy Manager, Traefik.
Web Servers & Proxying: Node.js, HTML, CSS, Apache, Nginx (load balancing), SSL/TLS (Let's Encrypt).
Data Formats & APIs: XML, JSON, YAML, XML-RPC.
Databases & Storage Engines: PostgreSQL, MySQL, MariaDB, Oracle, Neo4j (graph, Cypher), DL/1 (IMS).
Programming Languages: Go, Python, PowerShell, JavaScript (Node.js), PHP, ASP, Java, C++, C, Perl, Visual Basic, Pascal, Prolog, IBM Assembler (mainframe).
IDEs & Development Tools: Visual Studio Code (Claude Code, GitHub Copilot), IntelliJ IDEA, Eclipse.

LANGUAGES

German (native), English (fluent)