



Tobias Schneider

DEVOPS/SITE-RELIABILITY/PLATFORM ENGINEER

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'In the ever-evolving landscape of software development, change is not just an option; it is the essential mandate for progress and innovation.'

Skills

Kubernetes & Container Orchestration

- Deployment: Helm
- Management: Rancher, OpenShift
- Observability: Prometheus, Grafana, Loki, ELK, k6
- GitOps: ArgoCD
- Kubernetes API: Go, C#
- Development: Coder
- Tools: ExternalDNS, Cert-Manager, MetalLB, Istio, ...

Cloud provider

- GCP: GKS, VPC, Buckets,...
- Hetzner Cloud
- OpenStack: Nova, Neutron, Keystone, Horizon
- AWS: EC2, VPC, EKS, S3, ...
- Azure: AKS, ...
- Civo
- OpenNebula

Programming languages

- Go
- TypeScript/JavaScript
- Python
- C#
- Java
- C++/C

Web Development

- Nginx, Traefik
- HUGO, Astro
- Tailwindcss
- HTML
- Shopware 6
- Angular2+
- Vue.js
- SASS/CSS

Scripting & Automation

- Ansible
- Terraform
- Bash

CI/CD

- GitLab CI/CD
- Github Actions
- DroneCI
- Jenkins

IT-Infrastructure

- Linux (Debian, Arch, RHEL)
- Proxmox
- Mikrotik RouterOS
- vyOS
- KafKa, RabbitMQ, NATS
- PostgreSQL, MySQL, ELK-Stack
- Talos Linux
- VMWare ESXi/vCenter
- OPNSense
- pFsense
- Windows Server 2016+

Authorization & Authentication

- LDAP/Active Directory
- Keycloak, Authentik
- PKI-Infrastructure
- OAuth2, OIDC
- SAML

Networking

- Firewall
- IPsec/L2TP
- OSPF
- VXLAN
- IPv6
- BGP
- Wireguard
- IDS

Agile Tools

- Jira, Confluence
- YouTrack
- Draw.io
- OpenProject

Miscellaneous

- Fusion 360
- KiCad
- Yocto
- LaTeX
- Altium Designer

Entrepreneurship

TrueCore Technologies (in founding)

Regensburg, Germany

CEO & Co-FOUNDER

Jan. 2024 – Current

- Developing a new generation of high-density blade servers for energy-efficient and secure infrastructures through dynamic scaling (adding/removing nodes) and physical separation
- Designing custom PCBs based on System-on-Module (SoM) chips
- Adopting Talos as the operating system distribution for the blade server nodes
- Setting up a local Proxmox environment as a build, development, and evaluation cluster for the nodes
- Operating a remote Talos cluster on Hetzner Cloud to deliver external services (e.g., Forgejo)

Projects/Contracts

Competition Company GmbH

Munich (Remote), Germany

SENIOR PLATFORM ENGINEER

Feb. 2025 - Dec. 2025

- **Site Reliability & Platform Engineering**
 - Scaled infrastructure to support upcoming Xbox and PlayStation release of a racing game
 - Designed and executed load tests with k6 to identify bottlenecks
 - Improved observability by enhancing alerting and dashboards with Grafana/Prometheus
 - Optimized GitOps workflow by refining ArgoCD deployments
 - Optimized a Kubernetes operator to improve automated scaling of game servers
 - Maintained multiple GKE and on-premises Kubernetes clusters for game servers and backend services, with critical systems operated in an air-gapped environment
- **Backend Engineering**
 - Developed and maintained Go microservices deployed on GKE/GCore, integrating with PostgreSQL, Redis, and Google Cloud Storage
 - Integrated services using REST APIs and Kafka event streaming
 - Implemented in-game metrics with storage in Firestore
 - Performed performance tuning and fixed memory leaks and other critical issues
 - Optimized Android push notifications via Firebase Cloud Messaging (FCM)

Deutscher Fußball-Bund e.V. (DFB)

Frankfurt (Remote), Germany

SENIOR DEVOPS ENGINEER

Oct. 2025 - Est. Feb. 2026

- Evaluated Kafka deployment options with Strimzi and Confluent Operator on PSKE and Azure
- Connected Oracle/MySQL databases to Kafka using Debezium
- Prototyped real-time stream transformations with ksql to fan out into multiple topics and target databases
- Built a proof-of-concept managed event-driven data platform enabling service-to-service communication

Delica Deutschland GmbH

Berlin (Remote), Germany

SENIOR DEVOPS ENGINEER

Oct. 2023 - Aug. 2024

- **Platform and Infrastructure Management**
 - Ensured 24/7 uptime and optimal performance across multiple webshops
 - Led the migration of a shop to Google Cloud Platform (GCP)
 - Optimized CI/CD workflows
 - Managed GCP infrastructure, supporting platform scalability and reliability improvements
- **Platform Engineering**
 - Established a Kubernetes-based development platform on GCP
 - Deployed and managed Kubernetes clusters with Rancher
 - Implemented CI/CD pipelines utilizing GitHub Actions/ARC to automate deployments
 - Integrated GitOps architecture by using ArgoCD
 - Integrated Authentik Identity Provider
 - Containerized Shopware 6 applications
 - Developed a self-service portal for developers with Coder
 - Migrated shops to new infrastructure

Fresenius AG

Graz (Remote), Austria

SITE-RELIABILITY ENGINEER

July 2021 - Jan. 2023

- **Platform and Infrastructure Management**
 - Ensured 24/7 platform operation
 - Upgraded servers to accommodate increased needs
 - Verified backup integrity and security
 - Upgraded 300 Raspberry Pis in the field
- **Data Management and Analysis**
 - Created a data archive system for analysis
 - Maintained distributed code on edge devices
 - Debugged and improved the codebase

divVoice GmbH

Aachen (Remote), Germany

DEVOPS ENGINEER / SOFTWARE ARCHITECT

Jan. 2021 - May. 2021

- **Backend Architecture Design and Microservices Development**

- Designed a scalable backend architecture with a focus on Event-Driven Architecture utilizing NATS
- Developed microservices in Go to enhance system efficiency and modularity
- Collected IoT data via REST API and stored in Firestore for analytics

- **Development Infrastructure Setup**

- Established on-premise development infrastructure, including GitLab CI/CD pipelines and ArgoCD for GitOps
- Deployed infrastructure on Hetzner, utilizing Proxmox and k3s

- **Developer Empowerment**

- Created essential developer tools:
 - * NATS-compatible Event-Driven library
 - * Compile-time Dependency-Injection for Go
 - * Protobuf message definitions

- **Infrastructure Management**

- Engineered a Hybrid-Cluster Management Platform using Rancher for resource optimization

- **Knowledge Transfer**

- Provided mentorship to developers, fostering microservices development skills and promoting agile development practices

Loglite GmbH

Wolnzach, Germany

SYSTEMADMINISTRATOR

March. 2017 - Jan. 2021

- **Infrastructure Maintenance and Migration**

- Successfully maintained and orchestrated the migration of existing infrastructure
 - * Migrated from VMWare ESXi to Proxmox, optimizing resource management and virtualization
 - * Transitioned from Cisco IOS to Mikrotik RouterOS, enhancing network performance and management

- **Email Infrastructure Enhancement**

- Improved email infrastructure by replacing the SPAM filter with Proxmox Mailgateway, enhancing email security and filtering capabilities

- **Microsoft Exchange Upgrade**

- Executed a seamless migration from Microsoft Exchange 2013 to 2016, ensuring minimal disruption and improved email system performance

- **Security and Organizational Enhancement**

- Enhanced the security of the Active Directory system and introduced a revised organizational structure, strengthening data access controls and optimizing resource allocation

- **VPN Implementation**

- Successfully implemented Site-to-Site and VPN access solutions, ensuring secure and reliable remote network connectivity for the organization

Professional Experience

emgenics GmbH

Regensburg, Germany

DEVOPS ENGINEER/SOFTWARE DEVELOPER

July 2021 - Aug. 2023

• IT Infrastructure Creation and Management

- Established and maintained the IT infrastructure, including:
 - * Set up a hypervisor cluster using Proxmox
 - * Designed network architecture with Site-to-Site connections and dynamic routing
 - * Implemented a multi-tenant isolated architecture on-premise

• Development of Edge Yocto Devices and Cloud Management

- Served as a Software Architect and DevOps Engineer for edge Yocto devices:
 - * Configured a hybrid cloud infrastructure with Rancher in an air-gapped environment
 - * Created a development architecture with GitLab CI/CD, a build server for Yocto, and development/staging environments
 - * Designed fundamental embedded software modules, including libraries for NATS, MQTT, and containerd, along with Dependency-Injection in Go and Protobuf message definitions
 - * Developed backend architecture, implementing services in C#, MQTT and S3 libraries, and integrating Certificate generation with the Kubernetes API (Operator)
 - * Established CI/CD pipelines for C++, C#, Go, and Yocto codebases
 - * Provided training to developers in service-oriented architecture development

• Platform for Ordering Machining Parts

- Assumed the role of Project Manager and Fullstack Developer for the platform:
 - * Maintained and evolved the architecture, migrating from a monolithic to a service-oriented architecture
 - * Developed backend services using NestJS
 - * Managed sprints, engaged with stakeholders, and coordinated milestones
 - * Gathered and integrated stakeholder requirements into project planning, conducting planning meetings
 - * Set up staging and production environments to ensure smooth operations

DioVision Systems GmbH

Regensburg, Germany

WORKING STUDENT/DEVOPS AND SITE-RELIABILITY ENGINEER/SOFTWARE DEVELOPER

Sep. 2018 - July 2021

• High-Performance Visual Inspection System for Pharmacy Companies (DevOps Engineer)

- Designed a highly scalable backend architecture for a visual inspection system, including:
 - * Utilizing event-driven architecture with Kafka
 - * Designing a monolith with service-oriented services for loose coupling
 - * Developing the backend in plain TypeScript with MySQL, Kafka, and S3 integration
- Established and maintained the development platform, incorporating GitLab for code versioning and implementing CI/CD pipelines for the backend
 - Set up tools to simplify development, such as automatic schema import into Kafka Schema Registry and Ansible scripts for edge device updates
 - Developed software modules for edge devices, including migrating existing Python 2 code to Python 3 and creating an automatic certificate signing and revocation software
 - Created a custom Alpine Linux for Raspberry Pi 3, including a Bash script to build the custom Alpine Linux with necessary software modules and handling booting via TFTP and U-Boot
 - Built a scalable on-premise hybrid cloud management platform with Rancher in an air-gapped environment, managing four sites and integrating with GitLab

• Web Organigram Software for Pharmacy Company (Full-Stack Developer)

- Developed a web-based organigram software for a pharmacy company
- Designed an algorithm to print organigrams, involving extracting organigram data from MySQL and generating custom PowerPoint presentations using JavaScript
- Set up deployment using Docker

• IT Infrastructure Creation and Management

- Established a hypervisor cluster using Proxmox
- Evaluated OpenNebula, OpenStack, and KubeVirt for a development cluster environment
- Successfully deployed a developer cluster environment leveraging OpenStack "Train" version.
 - * Core components included Nova, Cinder, Neutron (with Open vSwitch), Keystone, Glance, and Horizon
 - * Empowered developers to independently deploy customized VMs, based on Debian Buster
 - * Seamlessly integrated the infrastructure with Rancher for automated VM scaling.
- Designed network architecture with Site-to-Site connections, dynamic routing, and VPN access for employees
- Deployed a Big-Data infrastructure for a machine-learning labeling pipeline

Schneider IT-Solutions

Beilngries, Germany

CEO

since March 2017

• IT Infrastructure Support for Local Businesses

- Provided essential IT infrastructure support to local businesses.

• Key Projects (Detailed in Contracts)

- Managed significant projects detailed in the contracts section.

Bertrandt GmbH

INTERNSHIP/WORKING STUDENT

Regensburg, Germany

Sep. 2017 - Aug. 2018

- **Traffic Sign Recognition with Deep Learning (Machine-Learning Intern)**
 - Undertook an internship role as a Machine-Learning Engineer
 - Designed and implemented a neural network for traffic sign recognition
 - * Utilized Python with the Keras framework for model development
 - * Executed the neural network on an Nvidia Jetson TX2 board, showcasing proficiency in both machine learning and hardware integration
- **Collecting and saving LIDAR/GPS-Data using an electronically driven bus**
 - Role as a working student
 - Setup backend architecture in Azure to collect data
 - * ROS Framework to transmit data to Azure
 - * Remote management of an embedded computer in the bus

Prosis GmbH

WORKING STUDENT

Gaimersheim, Germany

Sep. 2016 - Oct. 2016

- **Anti-virus Infrastructure Implementation**
 - Worked as a working student
 - Conducted research and successfully deployed an anti-virus infrastructure for the company

LAS³ - Laboratory for Safe and Secure Systems, OTH Regensburg

WORKING STUDENT

Regensburg, Germany

Apr. 2016 - Aug. 2017

- **Project Infrastructure Maintenance (Working Student)**
 - Held a role as a working student
 - Responsible for the upkeep of Linux servers and the deployment of Docker containers within the project

AUDI AG

ELECTRONICS TECHNICIAN AND INDUSTRIAL PLANT MAINTENANCE WORKER

Ingolstadt, Germany

Sep. 2010 - Sep. 2015

- **Maintenance of Production Plants (Industrial Plant Maintenance Worker)**
 - Served as an Industrial Plant Maintenance Worker
 - Ensured 24/7 operation of production plants through meticulous maintenance efforts
 - Specialized in optimizing Siemens S7 PLC to minimize cycle time on the motor assembly line
- **Distributed Analyzing Platform Implementation (System Administrator)**
 - Operated as a System Administrator
 - Developed and implemented a distributed analyzing platform, including:
 - * Managed RDP-enabled Windows VMs for effective operations
 - * Established a software stack with Siemens SIMATIC S7 for streamlined data analysis
 - * Orchestrated software updates efficiently using OPSI

Education

Ostbayerische Technische Hochschule Regensburg

PART-TIME M.S. COMPUTER SCIENCE

Regensburg, Germany

Oct. 2019 - Feb. 2024

- **Thesis:** Evaluate different seismic sensor technologies to locate and differentiate persons in a room

Ostbayerische Technische Hochschule Regensburg

B.S. COMPUTER SCIENCE

Regensburg, Germany

Oct. 2015 - July 2019

- **Thesis:** Developing a big scale-able big-data processing platform for sensor and image data