



Stephan *Bail*

Freelance Microsoft Azure Architect · since 2018

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LOCATION

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WEB

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AVAILABLE

immediately
Remote · DACH / EU

Since 2018, I have been supporting mid-sized to large enterprises as a freelance Microsoft Azure Architect, delivering complex cloud transformations end to end. My focus areas are Azure Landing Zones, API Management at scale, Infrastructure as Code and modern .NET engineering. I don't just relocate workloads, I re-engineer them. Alongside my consulting work, I design and ship KeyVault Studio, my own Swift-native product for macOS and iOS on the App Store.

8+

YEARS ON AZURE

10+ENTERPRISE
PROJECTS**130+**

APIS ON PLATFORM

2

COMPANIES FOUNDED

Core skills

§ 01

CLOUD & PLATFORM

Azure Cloud Architecture (Design & Strategy)
Azure API Management (APIM)
Azure Landing Zone / CAF

ENGINEERING

C# · .NET 8 / .NET 9
Swift / SwiftUI
Modern TypeScript / Angular

Multi-Cloud (Azure & AWS)
Serverless & Event-Driven

Microservices & REST APIs
Elasticsearch

INFRASTRUCTURE & DEVOPS
Terraform & Bicep
Azure DevOps · GitHub Actions
Kubernetes (AKS)
Hub-Spoke networking
CI/CD & DevSecOps

SECURITY & GOVERNANCE
Entra ID · IAM · PIM
Azure Policy · Defender
Zero-Trust architectures
BaFin & Compliance
ISO 27001

Experience

§ 02

2025 - PRE-
SENT
INSURANCE

Azure Platform Engineer · API Management

HDI Versicherung · Hannover

Evolving HDI's group-wide Azure API Management platform as the backbone of their Internal Developer Platform.

- Built reusable Terraform modules for a unified APIM baseline across 130+ live repositories
- Migrated API linting from Zally to Spectral, the new market standard, repository-wide
- Optimized YAML-based Azure DevOps workflows and onboarded new API providers
- Drove the Internal Developer Platform and its governance processes

Azure APIM Terraform Spectral Azure DevOps Multi-Region

OCT 2024 -
2025
MANUFACTURING

Microsoft Azure Cloud Engineer

TRUMPF SE + Co. KG · Ditzingen

Leading analytics initiatives in a multi-cloud landscape (Azure + AWS) focused on Elasticsearch-based data evaluation.

- High-performance .NET 8 / .NET 9 and C# 13 for data evaluation on Elasticsearch
- Scalable PaaS architectures enabling data-driven insights across cloud environments
- Multi-cloud integration across Azure and AWS

Azure AWS .NET 9 C# 13 Elasticsearch

APR 2023 -
APR 2025
ENERGY

Cloud Architect (Microsoft Azure)

E.ON Digital Technology GmbH · Essen

Re-architected the Heartbeat Information Router (HIR), an Azure-hosted platform, and integrated new business domains.

- Architecture analysis and redesign of the HIR platform on C# 13 and .NET 9
- Coordinated integration of new business domains into HIR with focus on compatibility and performance
- Enterprise consulting across E.ON's Azure landscape
- Optimized internal processes through targeted use of Azure services

Azure .NET 9 C# 13 API Management

2022 - 2023
MANUFACTURING

Azure Enterprise Architect

GEA Group · Düsseldorf

Reviewed and extended the existing Azure landing zone, coached developer teams and led the enterprise-scale landing zone project.

- Architecture reviews and optimisation of existing Azure workloads
- Designed targeted landing zones aligned with the Cloud Adoption Framework
- Coaching and enablement of internal cloud teams

ALZ CAF Azure DevOps

2020 - 2021
LOGISTICS

Azure Enterprise Architect

Nagel-Group · Versmold

Built a secure, group-wide Azure landing zone aligned with Microsoft CAF, addressing regulatory requirements and modern private networking.

- Secure Azure landing zone aligned with CAF and compliance requirements
- Modern private-networking concept (Hub-Spoke) and corporate network integration
- Guidance for large-scale IaaS/PaaS initiatives, IAM and cost management
- Enablement of key roles in cloud security, monitoring and FinOps

Azure Terraform AKS Hub-Spoke CAF

2019 - 2021
INSURANCE**Azure Solution Architect***Versicherungskammer Bayern · München*

Technical conception of IAM integrations, migration concepts and cloud-based architectures under BaFin regulations.

- Integrated additional systems with the existing Identity Management
- Introduced Azure DevOps for CI/CD
- Architected new cloud-based solutions
- Authored technical documentation and operating manuals

Azure Azure DevOps IAM

2019 - 2020
AUTOMOTIVE**Cloud Solution Architect***BMW Group · München*

Designed the landing zone architecture for BMW's global Azure environment, focused on hybrid cloud security and hyperscaler network strategy.

- Designed and architected the global Azure environment
- Evolved security automations based on Azure Functions
- Consulting on IoT, Machine Learning and IT security
- Independent Azure vs. AWS comparisons for ConnectedDrive initiatives

Azure Hybrid Cloud ExpressRoute .NET Core

2018 - 2021
ENERGY**Cloud Engineer (Microsoft Azure)***E.ON Digital Technology GmbH · Essen*

Built resource-efficient, highly available microservices in Azure using sophisticated multi-threading strategies.

- Resource-efficient architecture (optimised Request Units)
- Serverless with Azure Functions, Cosmos DB, Data Lake, API Management
- Strict adherence to security and performance requirements

.NET Core C# Cosmos DB Azure Functions

2019 - 2020
SHIPPING**Cloud Data Engineer***Oldendorff Carriers · Lübeck*

Designed and implemented a cloud-based data warehouse using Azure Synapse, Databricks and Data Factory.

- Migration of existing data-engineering infrastructure to Azure
- Partition strategy, incremental loads, analytic storage
- CI/CD with GitHub Enterprise and GitHub Actions

Synapse Databricks Data Factory Azure SQL

2017 - 2020
SOFTWARE**Cloud Solution Architect***ELO Digital Office · Stuttgart*

Fully automated Terraform deployments, Hub-Spoke network segments and IT security within a hardened Azure environment.

- Infrastructure as Code with Terraform
- Hub-Spoke network design
- IT security and hardening of the Azure environment

Terraform Hub-Spoke Azure

2015 - 2017
ERP SOFTWARE**Chief Technology Officer · Software Engineering***c-entron software gmbh · Stuttgart*

Strategic and technical leadership of the ERP software roadmap, managing a 20-person engineering team and driving the software's cloud transformation.

- Led ~20 developers, architects and IT specialists
- Drove the software solution's cloud transformation
- Architecture, mockups, requirement specifications, supplier negotiations
- Hands-on engineering with .NET (C#), Angular and WPF

.NET C# Angular WPF Xamarin

Own product

2024 -
HEUTE /
PRESENT
KEYVAULT.STUDIO

KeyVault Studio
Founder · Developer · Designer
Swift-native Mac and iOS app for Azure Key Vault, designed, built and shipped solo.
– Commercial product on the Apple App Store (macOS, iPadOS, iOS)
– Keyboard-first workflow for secrets, keys and certificates
– Multi-tenant, Entra ID sign-in, on-device AI
– Built entirely solo: concept, design, code, release, support
Swift SwiftUI MSAL CryptoKit On-device AI

Entrepreneurship

§ 04

2020 - 2023
Cloud Business Group (CBG IT GmbH)
Co-Founder & CEO
Co-founded and led. Responsible for strategy, governance and business development around cloud-focused initiatives.

2022
PRW Legal Tech GmbH
Co-Founder
Founded with the focus on professional legal-tech services.

References

§ 05

«An amazing Azure architect who has successfully transferred his knowledge to non-technical experts as well as IT architects. Highest recommendations.»
Walter Wirl
Chief Technology Architect · Cancom

«Stephan Bail delivered a highly scalable Azure solution meeting E.ON's rigorous quality and safety standards. Consistently professional, with excellent communication.»
Olaf Franke
Business IT Germany · E.ON Digital Technology

Personal data & industries

§ 06

BIRTHDAY	NATIONALITY	LANGUAGES	UST-IDNR.
13 February 1987	German	German (native), English (fluent)	DE815765712

INDUSTRY EXPERIENCE

Insurance Energy Automotive Manufacturing Logistics Shipping Software & ERP