

Shahrooz Aghili

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Summary

Multi-Domain Software Engineer with 16+ years of experience in software engineering

Expertise in **Cloud-Native Technologies, Technical Leadership, and Mentorship**

Passionate **Educator** and **Innovation Enthusiast**

Skills

Cloud & Platforms: Google Cloud Platform (GCP), AWS, OpenShift, Kubernetes, Anthos, EKS

DevOps & CI/CD: Tekton Framework, GitHub Actions, GitLab CI, ArgoCD, Helm

Observability: OpenTelemetry, Elastic Stack (ELK), Prometheus, Grafana, APM

Programming: C#/.NET, TypeScript/Node.js, Python, Java, Go, MATLAB, C

Infrastructure as Code: Terraform, AWS CDK, CloudFormation, Helm Charts

Message Brokers: MQTT, Apache Kafka, RabbitMQ, Redis

Databases: PostgreSQL, MongoDB, Elasticsearch, Redis

Experience

DevOps Squad Lead, Deloitte Consulting – Frankfurt, Hesse, Germany Jan 2025 – present

- Leading two workstreams with a combined team of 12 consultants across multiple seniority levels
- Responsible for technical interviews and supporting engagement partner with staffing decisions
- Serving as technical lead and platform engineer for Volkswagen's DevOps Enabling Team within ART FSS
- Developing self-service CDK library fully compliant with Volkswagen's AWS Vanguard framework
- Automating CI/CD pipelines and designing scalable EKS-based deployment architectures
- Driving end-to-end implementation of ART-wide observability strategy covering metrics, logs, traces, and business KPIs
- Implementing zero-code instrumentation for business-specific signals using shared NuGet packages
- Integrating Elastic Stack as central monitoring platform with OTLP exporters and Helm chart extensions

DevOps Tech Lead, Deloitte Consulting – Frankfurt, Hesse, Germany Apr 2024 – Dec 2024

- Led infrastructure automation initiatives and CI/CD pipeline development for Volkswagen and Audi
- Mentored and provided technical direction to a team of three Deloitte engineers
- Collaborated with product owners to develop tailored rollout strategies aligned with business needs
- Designed and implemented release concepts for workloads on plant-based clusters
- Developed cloud-native system and load testing automation for Data Capture Application (DCA)
- Integrated Tekton pipelines with XRAY and Jira to streamline testing workflows
- Partnered with VW SDC operations teams and external consulting partners for seamless platform integration

Senior Solutions Architect, Deloitte Consulting – Frankfurt, Hesse, Germany Dec 2023 – Apr 2024

- Directed development of PoC for Google Cloud's Manufacturing Data Engine for Deloitte-Google Alliance
- Applied FinOps principles and GCP Well-Architected Framework best practices
- Built advanced pipelines for Kubernetes node scheduling and on-demand infrastructure provisioning
- Worked closely with Google MDE development teams for seamless upgrades and maintenance
- Delivered technical presentations to prospective Deloitte clients

Community Group Organizer, Cloud Native Frankfurt – Frankfurt Rhine-Main Metropolitan Area Feb 2025 – present

- Organizing Cloud Native community events and meetups in Frankfurt region
- Building local CNCF community and fostering knowledge sharing
- Connecting cloud-native practitioners and enthusiasts

Content Creator – Cloud-Native Technologies, Self-employed – Remote Apr 2024 – present

- Developed hands-on training materials and interactive scenarios on <https://killercoda.com/aghilish>
- Created and managed YouTube channel with tutorials and practical guides (<https://www.youtube.com/@aghilish>)
- Covered topics including Kubernetes, containerization, cloud platforms, and DevOps best practices
- Empowering learners with actionable skills through engaging educational content

Freelance Senior DevOps Engineer, CARIAD – Remote Oct 2023 – Nov 2023

- Successfully migrated Infotainment software build pipeline from CARIAD DevStack to GitHub Enterprise CI/CD
- Enhanced pipeline efficiency and maintainability

Senior Platform Engineer, Commerzbank AG – Frankfurt, Hesse, Germany Feb 2023 – Sept 2023

- Led engineering backlog ensuring platform's continuous development and team alignment
- Guided and mentored team of junior cloud-native engineers
- Designed and conducted in-depth workshops on Knowledge Graph Kubernetes platform
- Spearheaded migration of microservices to multi-regional Google Anthos setup
- Maintained hands-on approach through practical demonstrations on killercoda.com/aghilish

Platform Engineer, Commerzbank AG – Frankfurt, Hesse, Germany Mar 2021 – Feb 2023

- Engineered robust deployment pipeline for KYC ETL process
- Implemented and maintained Infrastructure as Code (IaC) practices
- Designed and managed CI/CD pipelines to streamline development workflows
- Contributed to design and implementation of scalable microservices-based solutions
- Built and optimized networking architecture for reliable system communication

Backend Engineer / DevOps, Main Incubator GmbH – Frankfurt am Main, Hesse June 2019 – Feb 2021

- Contributed to small agile incubator team developing cloud-native applications on GCP
- Played dual role in backend development and DevOps
- Utilized cutting-edge stack including Firebase, Node.js with TypeScript, and React.js

Researcher - PhD Dropout, Technische Universität Darmstadt – Darmstadt Area, Germany Dec 2016 – Dec 2018

- Contributed to development and optimization of 5G mm-wave network technologies
- Utilized Python, C++, and MATLAB for network design, simulation, and implementation

Senior Software Engineer, Parham Co. – Tehran, Iran Oct 2015 – Oct 2016

- Delivered comprehensive full-stack solutions
- Leveraged expertise in both front-end and back-end development

Research Assistant, Sharif University of Technology – Tehran, Iran Sept 2014 – Sept 2015

- Focused on Software Defined Networks (SDN) with innovative network architectures
- Authored thesis on "Distributed Publisher-Subscriber Pattern for Content-Based Routing in SDN"
- Hands-on experience with OpenDaylight Controller, Mininet, and Java

Senior Software Developer, Solico Group – Tehran, Iran Mar 2012 – Nov 2014

- Specialized in creating robust and scalable back-end solutions for enterprise applications

Software Developer, Telecomsoft – Tehran, Iran Oct 2011 – Feb 2012

- Designed and developed simulation tool for routing and bundling in optical networks
- Commissioned by Iranian Telecommunication Research Center (ITRC)
- Utilized C# and MATLAB for application development and simulation

Education

Technische Universität Darmstadt, PhD (Dropout) in Computer Science 2016 – 2018

- Research focus on 5G mm-wave network technologies

Sharif University of Technology, Master of Science (MS) in Information Technology 2013 – 2015

- Thesis on Software Defined Networks and Content-Based Routing

Isfahan University of Technology, Bachelor of Science (BS) in Computer Engineering 2007 – 2011

Certifications

- Organizer - 2024 Cloud Native Community Group
- Agentic AI Certification
- Google Cloud Certified Professional Cloud Architect
- CKA: Certified Kubernetes Administrator
- CKS: Certified Kubernetes Security Specialist

Languages

Persian: Native or Bilingual

English: Full Professional

German: Full Professional