

# Shahrooz Aghili

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## Summary

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**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

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**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

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**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 Feb 2025 – present  
Metropolitan Area

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

<b>Freelance Senior DevOps Engineer</b> , 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	
<b>Senior Platform Engineer</b> , 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 <a href="http://killercoda.com/agilish">killercoda.com/agilish</a>	
<b>Platform Engineer</b> , 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	
<b>Backend Engineer / DevOps</b> , 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	
<b>Researcher - PhD Dropout</b> , 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	
<b>Senior Software Engineer</b> , Parham Co. – Tehran, Iran	Oct 2015 – Oct 2016
• Delivered comprehensive full-stack solutions	
• Leveraged expertise in both front-end and back-end development	
<b>Research Assistant</b> , 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	
<b>Senior Software Developer</b> , Solico Group – Tehran, Iran	Mar 2012 – Nov 2014
• Specialized in creating robust and scalable back-end solutions for enterprise applications	
<b>Software Developer</b> , 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	
<b>Education</b>	
<b>Technische Universität Darmstadt</b> , PhD (Dropout) in Computer Science	2016 – 2018
• Research focus on 5G mm-wave network technologies	
<b>Sharif University of Technology</b> , Master of Science (MS) in Information Technology	2013 – 2015
• Thesis on Software Defined Networks and Content-Based Routing	
<b>Isfahan University of Technology</b> , Bachelor of Science (BS) in Computer Engineering	2007 – 2011
• Thesis on Software Defined Networks and Content-Based Routing	

## Certifications

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- 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

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**Persian:** Native or Bilingual

**English:** Full Professional

**German:** Full Professional