

# 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 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](https://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

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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