

# Hossein Margani (He/Him)

Software Engineer

Dynamic and highly technical Senior DevOps Engineer with a strong software engineering background and over seven years of hands-on experience building, automating, and operating secure, scalable, cloud-native platforms on Azure. Skilled in modern Infrastructure as Code, container orchestration, and CI/CD automation, with a track record of driving infrastructure reliability, improving engineering workflows, and enabling efficient delivery across teams.

## Skills

- Deep experience designing and operating Azure infrastructure, including cost-optimisation, security, networking, and large-scale architecture.
- Expert in Infrastructure as Code using Pulumi (C#), Bicep, and ARM templates, delivering reproducible and automated cloud environments.
- Expert in building CI/CD pipelines using Azure Pipelines, GitHub Actions, and Octopus Deploy.
- Strong scripting capability in PowerShell, Bash, and Python for automation, tooling, and pipeline orchestration.
- Skilled in managing AKS clusters, Helm charts, container image pipelines, and platform maintenance (patching, upgrades, image pipelines).
- Experience with Azure Image Builder and container image lifecycle management.
- Strong background in C#, .NET Core, SQL Server, and REST API development.
- Solid full-stack engineering foundation enabling effective collaboration with development teams.
- Experience embedding security best practices into CI/CD pipelines, Azure resources, networking, and cloud governance.
- Familiar with WAF, private endpoints, security assessments, and enterprise-grade compliance practices.

## Employment

### Senior DevOps Engineer WTW

June 2024 - Now, Reigate, UK

- Learned and adopted Pulumi with C#, implementing multiple infrastructure projects for the Unify teams and modernising existing cloud environments.
- Maintained and improved cloud infrastructure by performing monthly AKS upgrades, patching Windows VM images, and updating Windows/Linux Docker images.
- Designed and implemented infrastructure changes and new services using Pulumi and C#, ensuring scalability, reliability and clean configuration practices.
- Planned and executed the migration from Packer to Azure Image Builder for VM image creation, improving consistency, automation, and build quality.
- Authored and maintained pipeline templates and PowerShell scripts, contributed actively to the DevOps Guild across the organisation, documented infrastructure usage for developers, supported client-raised tickets, and participated in on-call rotations.

📍 London, UK

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## **Senior DevOps Engineer** Aqovia

⌚ Aug 2022 - June 2024 (1 yr 10 mos), ⚡ London, UK

- Led two DevOps teams, providing technical direction, architectural guidance, and promoting best practices across all projects.
- Architected and delivered secure, scalable Azure infrastructure solutions closely aligned with development and business needs.
- Embedded DevSecOps practices by integrating security controls into CI/CD pipelines and enforcing infrastructure security standards.
- Optimised DevOps workflows by improving automation, introducing new tooling, and refining CI/CD pipelines for reliability and performance.
- Mentored engineers and fostered a collaborative culture focused on continuous improvement and cross-team knowledge sharing.

## **DevOps Engineer** Aqovia

⌚ Oct 2018 - Aug 2022 (3 yrs 10 mos), ⚡ London, UK

- Designed and implemented ARM/Bicep templates and automated CI/CD pipelines using Azure Pipelines (YAML) for multiple environments.
- Managed AKS clusters, orchestrated deployments with Helm v3 charts, and automated cluster patching and version upgrades.
- Automated provisioning of test environments using Chef, Vagrant, Azure Pipelines and Octopus Deploy.
- Developed dashboards and runbooks to visualise pipeline health, streamline operational tasks, and accelerate complex organisational processes.
- Implemented secure networking patterns including private endpoints, WAF policies, and SQL vulnerability assessments.

## **Senior Software Engineer** Aqovia

⌚ Oct 2017 - Oct 2018 (1 yr), ⚡ London, UK

- Engaged in productive collaboration with the team to comprehend requirements and business specifications effectively.
- Engaged in full-stack development using .NET, lit-html, Redux, with a focus on Test-Driven Development
- Designed and sustained web application architecture, microservices, and contemporary component-based user interfaces.

## **Senior Software Engineer** Geeks Ltd

⌚ Mar 2016 - Sep 2017 (1 yr 6 mos), ⚡ London, UK

## **Software Engineer** PTC

⌚ Feb 2014 - Jun 2015 (1 yr 4 mos), ⚡ Mashhad, Iran

## **Software Developer** GoldNet Engineering Group

⌚ Jun 2010 - Feb 2014 (3 yrs 8 mos), ⚡ Mashhad, Iran

## **Software Developer** Moshaveran Meshcut Shargh

⌚ May 2006 - May 2010 (4 yrs), ⚡ Mashhad, Iran

## **Education**

### Islamic Azad University of Mashhad

M.Sc. in Computer Software Engineering

Devised an enhanced algorithm for image encryption using cellular automata and chaos theory

### Sadjad Institute of Higher Education

B.Sc. in Computer Software Engineering

Engineered an algorithm for fast detection of glass particles in glass containers using C# and MATLAB