


# Mehrdad Qasemkhani

Senior DevOps Engineer  
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## About Me

As an experienced Software/DevOps Engineer with over 8 years of expertise, I specialize in building scalable, cloud-native systems and driving automation to optimize workflows. My career spans designing RESTful APIs, leading DevOps initiatives, and implementing cutting-edge infrastructure solutions.

My expertise lies in deploying scalable and resilient cloud-native applications. I excel at containerizing applications using Docker and orchestrating them seamlessly with Kubernetes. I have automated build and deployment processes using CI/CD and Provisioning tools, ensuring efficient and reliable delivery of software.

In terms of application development, I have designed and developed RESTful APIs using Python, Flask, Neo4j, PostgreSQL, and Kong, while ensuring comprehensive unit tests.

As a problem solver and team leader, I thrive on tackling complex challenges, mentoring team members, and fostering a culture of collaboration and continuous improvement. I am passionate about leveraging technology to drive innovation and efficiency.

I am seeking a challenging position where I can contribute to innovative, cloud-centric projects and help organizations achieve their digital transformation goals. My mission is to deliver impactful solutions, mentor teams, and align technical strategies with business objectives.

## Experience

### Fanap Infrastructure

#### DevOps Engineer

May 2021 – Present

Tehran, Iran

- Led a team of 4 engineers, focusing on DevOps/SRE practices, infrastructure management, tooling, and methodologies.
- Finding innovative solutions, brainstorming ideas, and solving complex challenges.
- Proposing and implementing solutions for an HPC (High-Performance Computing) project.
- Created virtualization packages via Packer, including Ubuntu cloud-init installation and provisioning via Ansible.
- Full automation of builds using GitLab CI & GitLab Runner.
- Fully automated deployments using Ansible.
- Fully provision services and Infrastructure as Code (IaC) using Ansible.
- Migrated CI pipelines from Atlassian Bamboo to GitLab CI.
- Docker containerization of applications.
- Nexus repository to store packages and Docker images.
- Produce and consume large volumes of messages using Kafka.
- Gather a large number of log messages using Promtail and push to Loki.
- Gather monitoring metrics using Prometheus agents (node-exporter, push gateway, etc.) to pull by Prometheus.
- Visualize metrics and log messages in Grafana.
- Synchronize PostgreSQL databases using Bucardo in active/active mode.

- Load-balance HTTP (Layer 7) & TCP (Layer 4) traffic using HAProxy.
- Use Kubernetes as the container orchestration platform.
- Use Ingress to handle HTTP requests in the Kubernetes cluster

## **Respina Network & Beyond**

### **DevOps Engineer**

Feb 2020 - Apr 2021

Tehran, Iran

- Expertise in VoIP & Cloud Telecommunication Technologies.
- Developed Communications Platform as a Service (CPaaS) solutions.
- Proficient in Session Initiation Protocol (SIP).
- Configured and maintained Kamailio SIP-Server using the signaling section.
- Deployed and managed Asterisk & FreeSWITCH soft-switch platforms.
- Maintained Respina SIP-Trunk services and HostedPBX solutions.
- Implemented SIP & HTTP Load Balancing.
- Achieved High-Availability over SIP & HTTP protocols via VRRP.
- Dockerized services using Docker Compose.
- Automated the entire build process using GitLab CI (Continuous Integration).
- Persisted objects using MinIO object storage.

### **Python Developer**

Jun 2019 - Feb 2020

Tehran, Iran

- Developed Asterisk RESTful Interface (ARI) applications using Python and the Django framework.
- Developed Asterisk Call-App-Manager using pure Python over the Asterisk RESTful Interface (ARI).

## **Kara Hooshmand Tadbir Kish**

### **Python Developer**

Sep 2016 - May 2019

Tehran, Iran

- Analyzed, designed, and developed RESTful API applications using Python, Flask, Neo4j, PostgreSQL, and Kong to serve a ton of subscribers.
- Developed comprehensive Unit-tests and Integration-tests.

## **Education**

### **Shamsipour Technical College**

#### **Associate's Degree in Software Engineer**

2010

Tehran, Iran

### **Raja**

#### **Bachelor of Software Engineer**

2013

Qazvin, Iran