Mehrdad Qasemkhani

Senior Software Engineer

Site Reliability 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 SRE 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. I also implementing an Incident Management System based on Google SRE best practices using FastAPI and Angular-20.

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

Hamrah Aval - [My/Shop] MCI
SRE Team Lead

Mar 2025 - Now

Tehran, Iran

- Led a team of 6 young engineers, focusing on SRE best practices, incident management, and customer support.
- Implementing Google SRE best practices, in the company.
- Suggesting some solution of chaos engineering, including disaster recovery, active active replication, and more based-on SLOs/SLIs.
- Managing Rancher clusters, to handle more than 50M customers [My/Shop] MCI.
- Head of front-line group's of commanders to catch real time incidents.
- Finding innovative solutions, for better customer experience.
- Writing a manifest to scale Oracle databases in production, for [My/Shop] MCI.
- Writing an Async 'Incident Management System' by FastAPI and Angular-20 based on Google SRE best practices.

Fanap Infrastructure
Senior DevOps Engineer

May 2021 - Mar 2025

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.
- 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 metrics using Prometheus agents (node-exporter, push gateway, etc.).
- 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 Engineering
2010
Tehran, Iran

Raja
Bachelor of Software Engineering
2013
Qazvin, Iran

More Focus on
- Observability
- Reliability
- Kubernetes
- CI/CD
- HA/LB