Amirhossein Shaerpour

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EDUCATION

Islamic Azad University, Central branch **Tehran, IR**

Bachelor's Degree, Computer Software Engineering *Graduation Date: Oct 2025*

WORK EXPERIENCE

MTN Irancell **Tehran, IR**

Platform Engineer *Aug 2024 - Present*

- **Implemented and scaled** Kubernetes clusters powering over 200 high-demand projects, optimizing for uptime, performance, and resiliency.
- **Applied** industry-standard Kubernetes practices to harden cluster security and reliability.
- **Provisioned** and tuned RabbitMQ and Redis clusters to support intensive messaging and caching workloads across distributed systems.
- **Oversaw** administration of high-availability MinIO deployments, ensuring scalable object storage with fault tolerance across multiple nodes and disks.
- **Directed** operations of a 17-node ELK enterprise cluster, delivering robust log aggregation and analytics capabilities for mission-critical Irancell services.
- **Configured and improved** Fluent-Bit agents for efficient log ingestion, transformation, and routing to ELK and SIEM systems, enabling actionable security intelligence.

Myket **Tehran, IR**

Site Reliability Engineer *Dec 2023 - Apr 2024*

- **Established and administered** a private APT repository using **reprepro** to distribute internally compiled packages like Fail2Ban and Netfilter, maintaining secure and consistent delivery across systems.
- **Maintained** a comprehensive monitoring stack with Prometheus and Alertmanager to track infrastructure health and mission-critical services.
- **Optimized** NGINX and HAProxy configurations with integrated caching and load balancing, improving system scalability, reducing backend server utilization by 80%, and increasing application performance.
- **Compiled and maintained** custom Linux packages for internal use, contributing upstream improvements to open-source projects to enhance maintainability and performance.

Agape-NGO **Tehran, IR**

Devops Engineer *Jun 2023 - Jan 2025*

- **Orchestrated** the lifecycle management of critical production services - GitLab, container registries, and VPN solutions - ensuring 99.99% uptime and zero critical security vulnerabilities reported in production for mission critical services
- **Designed** optimized multi-stage Dockerfiles for containerizing Next.js, React, and Laravel apps, cutting build times by 30%, reducing image size by 60%, and enabling faster, more consistent deployments across production and staging environments..
- **Initiated** observability infrastructure using Prometheus, Grafana, and Alertmanager, with custom alert rules to ensure timely detection of anomalies and outages.
- **Automated** backup procedures with Bash and Python scripts, covering databases and essential services to ensure data integrity and disaster recovery readiness.
- **Deployed** and fine-tuned a centralized single node ELK stack, leveraging Elasticsearch, Fluent Bit, and Kibana for log aggregation, searchability, and real-time analytics.

ArazCloud **Tehran, IR**

Devops Engineer *Oct 2022 - May 2023*

- **Provisioned and managed** high-availability platforms (GitLab, container registries, databases), reducing build times by 30%, increasing release frequency, and driving continuous delivery across development teams.
- **Built and refined** CI/CD pipelines for Django and React applications, streamlining build, testing, and deployment across environments.
- **Administered** scalable infrastructure on OpenStack, leveraging IaaS capabilities to support high-availability and elastic resource provisioning.
- **Defined** real-time monitoring and alerting solutions using Prometheus, Alertmanager and Grafana, enabling early detection of system anomalies and service degradation.
- **Automated** key infrastructure processes using Bash, Python, and Ansible, enabling consistent deployments and reducing manual intervention across environments.

Sharif HPC **Tehran, IR**

System Administrator *May 2022 - Oct 2022*

- **Delivered** NOC support and incident response for cluster systems, achieving 99.99% uptime.
- **Automated** server provisioning and decommissioning in VMware environments using Ansible, reducing provisioning time by 30% and decreasing incident response time by 10 minutes.

PROJECT EXPERIENCE

Canonical • cloud-init

Contributor *Feb 2025 - Present*

- Contributed to the cloud-init open-source project by improving and maintaining Ansible module integration, making cloud instance provisioning faster and more reliable.

Ansible • collections

Contributor *Apr 2025 - Present*

- Developed enhancements to the hetzner.hcloud Ansible module, reducing API call overhead and improving reliability, flexibility, and performance of infrastructure automation on Hetzner Cloud.

LANGUAGES

- English: Limited working proficiency