Mohammad Hossein Nemati

DevOps Engineer

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I'm a DevOps engineer with over 5 years of experience, specializing in CI/CD pipeline implementation, Dockerization, and Infrastructure as Code (IaC) across teams of 10+ engineers. I've optimized deployments for systems handling millions of daily transactions. While my focus is on DevOps, I'm also exploring MLOps, particularly in automating model training and inference.

Work Experience

Visiwise.co   *May 2022 – Present*
Senior DevOps Engineer

- Refactored codebases across 10+ projects and set up CI pipelines, reducing deployment times by 70%
- Migrated 10+ services to Docker Swarm cluster on Hetzner Cloud, improving resource efficiency by 25%
- Clustered PostgreSQL and automated backups, ensuring 100% data integrity during zero-downtime migration
- Automated infrastructure provisioning with Terraform and Ansible across 5+ environments
- Deployed 5+ self-hosted services, reducing third-party dependencies by 40%
- Established monitoring with Grafana stack, improving incident response by 80% with 10+ custom dashboards
- Standardized CI/CD pipelines, reducing build times to under 1 minute across 10+ repositories
- Managed multi-cloud setup (Hetzner & AWS), cutting operational costs by 20%
- Implemented review apps, boosting developer productivity by 40%

Smartech   *Feb 2024 – June 2024*
Senior DevOps Engineer

- Standardized CI/CD templates across 50+ repositories, reducing deployment times by 40%
- Configured auto-scaling Kubernetes clusters with Terraform for 10+ Event Processor apps, optimizing Kafka load handling
- Developed Kubernetes manifests for 20+ projects and automated deployment of 40+ services via ArgoCD
- Automated server management with Ansible for 50+ servers, including Firewall, User Management, and Minio clusters
- Managed 500+ VMs and 50TB+ of warm data across services like Elasticsearch, ClickHouse, ScyllaDB, and Kafka

University of Tehran   *Jul 2022 – Jun 2023*
DevOps Engineer

- Provisioned a 20+ node HPC cluster using Terraform and Ansible; set up Slurm with Singularity and Nvidia Enroot
- Optimized GPU workloads for 10+ researchers by integrating Nvidia Enroot with Slurm via Nvidia Pyxis
- Managed permissions and quotas for 200+ users and created 5+ resource-specific queues for jobs
- Deployed a Grafana monitoring stack, improving resource utilization by 30%

Pishgam Vira   *Mar 2022 – Jun 2022*
DevOps Engineer

- Provisioned Docker Swarm clusters and database servers with Ansible across 3+ environments
- Wrote Docker Compose manifests for streamlined deployments
- Set up CI/CD pipelines for 5+ repositories using GitHub Actions
- Automated versioning with semantic-release

Mobtaker Darya
Full-stack Developer & DevOps Engineer   *Nov 2019 – Jun 2022*

- Maintained and developed the CCS project, generating 50+ reports with Crystal Reports and SQL Server
- Developed the Shaahin project with a ReactJS frontend and Hasura/PostgreSQL backend
- Implemented CI/CD pipelines using GitLab CI and Docker, managing infrastructure using Terraform and Ansible
- Provisioned servers with Kubernetes, writing manifests and packaging them in Helm Charts

Tolou Yekta Samaneh
Full-stack Developer   *Mar 2019 – Oct 2019*

- Maintained and refactored the Managed-Funds System (MFD), implementing backend APIs with Loopback.io, Node.js, TypeScript, and PostgreSQL
- Replaced Process360 with ProcessMaker as the BPMS core and developed a new UI using ReactJS and TypeScript
- Implemented form generators in the client with schema integration from BPMS
- Developed a food-shopping UI for the Farmeal project using ReactJS, MaterialUI, and TypeScript, and integrated with backend GraphQL APIs using Apollo Client
- Set up CI/CD pipelines using GitLab CI and Docker for ManagedFunds and Farmeal projects

ChaM (Chapar Messenger)
Founder & Lead Developer   *Dec 2013 – Aug 2018*

- Designed and developed an audio/video messaging platform using C, Erlang, and Java
- Implemented P2P connections and used Cassandra/ScyllaDB for chat data management
- Created a desktop client with Qt/QML (C++) and an Android app with Java and JNI
- Integrated FFMPEG for audio/video streaming with native APIs
- Managed full-stack development, including server infrastructure and client interfaces

Technical Skills

Programming Languages	C/C++, C#, Java, JavaScript, TypeScript, Python, MATLAB, Erlang
Storage & Database	PostgreSQL, MSSQL, MySQL, ScyllaDB, SQLite, RabbitMQ, Redis, Minio
Container Orchestration	Docker, DockerSwarm, Kubernetes (K3s, RKE2, EKS), Helm, Nomad
High Performance Computing	Slurm, SunGridEngine, Rocks Cluster, NvidiaEnroot, NvidiaPyxis, Singularity
Infrastructure & Cloud	Terraform, Ansible, Packer, ESXi, Hetzner Cloud, Amazon Web Services
Monitoring & Alerting	Grafana, Promtail, Prometheus, OpenTelemetry, Loki, Mimir, Tempo
CI/CD & Automation	DroneCI, GitlabCI, Github Actions, Azure Pipelines, ArgoCD, GitOps

Education

M.Sc in Computer Science
University of Tehran   *Sep 2021 – Aug 2024*

Thesis: Seizure detection from multi-channel EEG using Graph Neural Networks

B.Sc in Computer Science
Kharazmi University   *Sep 2016 – Jan 2021*

Graduated with strong academic performance

Languages

Persian	Native
English	Full professional proficiency
Deutsch	Elementary proficiency