

MOHSEN AMANI

DEVOPS ENGINEER WITH BACKEND EXPERTISE

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PROFESSIONAL SUMMARY

DevOps & Platform Engineer with **6+ years of experience** designing, automating, and operating **secure, scalable, cloud-native and on-prem infrastructure**. Strong expertise in **Kubernetes, Terraform, Ansible, GitOps (Argo CD), CI/CD pipelines**, and **AWS & VMware-based environments**. Experienced in building and running **high-availability platforms**, integrating **secrets management (HashiCorp Vault)**, and supporting distributed systems in production. Complemented by a strong backend background in **Node.js, Python, PHP, and microservices**, with deep knowledge of **authentication systems (OAuth2, OIDC)** and performance-critical services. Proven ability to deliver reliable systems from infrastructure to application layer.

CORE SKILLS

DevOps & Cloud

- **Infrastructure as Code:** Terraform, Ansible
- **Containers & Orchestration:** Docker, Kubernetes, Kustomize, Helm, Docker Swarm, Kubespray
- **CI/CD & GitOps:** GitHub Actions, GitLab CI, Jenkins, Argo CD
- **Cloud & Edge:** AWS (EC2, ECR, EKS, S3, CloudFront), Cloudflare
- **Infrastructure:** Linux, Nginx, Apache2, Let's Encrypt
- **Observability & Monitoring:** Prometheus, Grafana, Loki
- **Virtualization & Storage:** VMware vCenter, ESXi, vSAN, vCenter CSI Driver
- **Secrets & Security:** HashiCorp Vault

Backend Engineering

- **Languages & Frameworks:** Node.js, NestJS, PHP, Laravel, Python
- **APIs & Communication:** REST, GraphQL, WebSockets, Redis Pub/Sub
- **Architecture:** Microservices, Distributed Systems
- **Authentication:** OAuth2, OpenID Connect (OIDC), JWT & token lifecycles
- **Testing:** Jest, PHPUnit
- **Media Processing:** FFmpeg, video transcoding pipelines
- **Messaging & Telephony:** Twilio (TML)

Databases & Storage

- **Databases:** MySQL, PostgreSQL, MongoDB (basic), Redis
- **Message Queues & Streaming:** RabbitMQ
- **Object Storage:** MinIO, S3-compatible storage systems

System Design & Architecture

- Event-driven architecture
- High availability & horizontal scaling
- Caching strategies & performance optimization
- API design, versioning & documentation

WORK EXPERIENCE

Lead DevOps & Backend Engineer

Rahanet ISP Company | 2024 – Present

- Lead backend and DevOps teams, driving **architecture decisions, delivery quality, and operational excellence**
- Designed and implemented a **distributed IAM platform** with **OIDC authentication** and **OpenFGA-based authorization**
- Developed scalable microservices using **NestJS, PostgreSQL, Redis, and message brokers**
- Built and operated **on-prem Kubernetes infrastructure**, adopting **GitOps workflows** with GitHub Actions and Argo CD
- Implemented **monitoring and observability** using **Prometheus and Grafana, Loki** improving availability and incident response
- Designed and implemented an **FFmpeg-based video transcoding pipeline** with multi-resolution outputs and **MinIO/S3 storage**
- Deployed and managed **edge caching servers** to optimize content delivery and reduce latency

Senior Full Stack Software Engineer

Inolitix Inc. | 2025 – Present

- Optimized web applications for speed, scalability and security
- Designed and implemented a **multi-level authentication token architecture** (*refresh → access → workspace → case tokens*)
- Applied industry best practices for **code quality, maintainability, and secure frontend architecture.**

Senior Full Stack Software Engineer

TrueTale Co | 2022 - 2024

- Developed and maintained **NestJS- and GraphQL-based microservices**
- Designed and implemented new backend services to meet evolving platform requirements
- Collaborated with cross-functional teams to define **API contracts** and ensure reliable service-to-service communication
- Performed advanced engineering in **AWS cloud infrastructure configuration, deployment, and management**
- Managed time efficiently in order to complete all tasks within deadlines
- Monitored CI pipelines and resolved **build and release failures** to maintain delivery stability

Full Stack Software Engineer

Rahanet ISP Company | 2019 - 2022

- Configured and managed **web servers, VoIP platforms, and video conferencing systems**
- Designed and developed enterprise systems for **financial management, CRM, accounting, and branch-based user management.**
- Built scalable backend systems using **PHP and Laravel**, translating ISP requirements into robust software solutions.
- Collaborated with stakeholders to gather requirements and deliver impactful technical solutions.

SELECTED PROJECTS

Infrastructure as Code & GitOps Kubernetes Platform

Designed and implemented a **multi-cluster, multi-environment Kubernetes platform** fully managed through **Infrastructure as Code and GitOps principles**, supporting **development, QA, staging, and production environments**, each with distinct deployment and promotion policies.

Integrated **HashiCorp Vault** for centralized secrets management and connected **external secret providers** to dynamically inject secrets into Kubernetes workloads. Established a private **container registry** for image storage and versioning. Deployed and managed applications using **Argo CD**, enabling declarative, automated, and auditable deployments across multiple environments.

The platform was designed for high availability, security, and scalability, supporting continuous delivery and operational consistency across services.

Technologies: VMware vCenter, ESXi, Kubernetes, Kubespray, Kustomize, MetalLB, NGINX Ingress, HashiCorp Vault, External Secrets, Private Registry, Argo CD

IAM Authentication Platform

A fully featured Identity and Access Management system built as an **OIDC-compliant** Identity Provider. Supports authorization code, PKCE, refresh token and device code flows with secure issuance of ID, access, and refresh tokens. Integrated **OpenFGA** for fine-grained, relationship-based authorization enabling flexible RBAC/ABAC models across microservices. Designed for reliability, and scalable authentication/authorization for distributed applications.

Video Transcoding System

A full video-processing pipeline built on **FFmpeg** to generate multiple streaming-optimized resolutions from a single source video, balancing quality and file size for efficient delivery. Extracts detailed video metadata, identifies and processes embedded subtitle streams, and converts them into TTML format. Automatically produces SMIL manifest files and structured subtitle assets required by **Wowza Streaming Engine**.

Movie.af

A modern streaming platform enabling users to watch movies, series, live TV channels, and follow sports events in real time. Integrated with a **multi-resolution transcoding pipeline** to deliver high-quality **adaptive video streams** optimized for different bandwidths and devices. Built for scalability, high availability, and smooth playback across web and mobile platforms.

ContentSprout.ai

Content Sprout is an AI-powered content creation platform that aims to help users **produce high-quality, SEO-optimized articles** and content much faster than traditional writing workflows. The platform is built around a suite of tools to handle nearly every stage of content creation — from idea generation and keyword research to final editing and optimization.

Medical and Patient Administration

Developed a healthcare administration system managing the complete patient lifecycle, from registration and appointment scheduling to treatment follow-up and completion tracking. The platform centralizes patient records, automates workflows, and integrates **automated calls and SMS for reminders**, improving operational efficiency and patient care.

EDUCATION AND CERTIFICATION

Bachelor's degree | Compute Application, Savitribai Phule Pune University, India

2019

LANGUAGE SKILLS

ENGLISH — Fluent

PERSIAN — Native

REFERENCES

References available on request.