

Mohammad Mahdi Sadeghi

Backend & DevOps Engineer

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PROFESSIONAL SUMMARY

Versatile Backend and DevOps Engineer with extensive experience in building scalable distributed systems, robust CI/CD pipelines, and high-availability infrastructure. Proficient in Python-based web development (Django, FastAPI, Flask) and distributed messaging (Kafka, RabbitMQ). Demonstrated expertise in implementing observability stacks, automated deployment strategies, and secure Linux system administration. Adept at bridging the gap between development and operations to drive technical reliability and efficiency.

TECHNICAL SKILLS

Languages & Frameworks: Python (Expert), Django, FastAPI, Flask, RESTful APIs, Socket.IO.

DevOps & Infrastructure: Linux (Debian/Ubuntu), Docker, Docker Compose, GitLab CI/CD, GitLab Flow.

Messaging & Distributed Systems: Apache Kafka (HA, Failover, Disaster Recovery), RabbitMQ.

Observability & Monitoring: ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, SNMP (Traps & Monitoring).

Methodologies: TDD (Unit Testing, Mocks, Fixtures), Semantic Versioning, Conventional Commits, Agile/Scrum.

PROFESSIONAL EXPERIENCE

Sanay Shargh | Backend & DevOps Engineer

Mar 2022 – Present

- **Infrastructure & Automation:** Engineered automated CI/CD pipelines utilizing GitLab Flow and Conventional Commits to enforce semantic versioning and changelog generation. Designed approval-based production deployment workflows that integrated rigorous automated testing.
- **System Architecture:** Architected a high-availability Kafka cluster designed for robust failover and disaster recovery. Orchestrated decentralized service coordination using RabbitMQ.
- **Observability:** Implemented a centralized monitoring and logging ecosystem using the ELK stack, Prometheus, and Grafana. Built custom SNMP-based status reporting and trap-based alerting mechanisms to track system health in real-time.
- **Linux Engineering:** Developed secure, hardened Linux environments with strict user permissions and whitelisted command execution. Engineered a Python-based, version-managed update mechanism featuring automated rollback capabilities.
- **Communication Layers:** Designed and implemented a real-time Socket.IO communication architecture to support complex B2B and B2C data exchange across decentralized systems.
- **Collaboration:** Acted as a technical bridge between operations and stakeholders, conducting recurring technical support and operational analysis sessions to optimize system performance.

Vira Node | Backend & DevOps Consultant / Technical Contributor

Present

- Collaborate within a 4-person technical team to provide architectural guidance on backend development and infrastructure scaling.
- Drive technical decision-making and implementation strategies for distributed systems and deployment automation.
- Advise on Python backend best practices and DevOps workflows to maintain high code quality and infrastructure stability.

Freelance | Backend Developer

Apr 2019 – Feb 2022

- Developed custom Python automation tools and services, transitioning into professional web development.
- Delivered scalable backend projects for various clients, focusing on clean code, RESTful API design, and task automation.

SELECTED TECHNICAL HIGHLIGHTS

- **Automated Release Management:** Successfully transitioned from manual deployments to a fully automated pipeline, reducing release friction and ensuring version consistency through automated dependency management.
- **Secure Update System:** Designed a centralized update repository concept that allowed for controlled, secure rollouts of system updates with integrated rollback safety nets.
- **Test-Driven Development:** Introduced and advocated for TDD practices within the development team, implementing comprehensive unit testing suites with mocks and fixtures to improve code reliability.

EDUCATION

M.Sc. in Computer Engineering (Software Engineering)

Shahid Rajaee University

2025 – Present

B.Sc. in Computer Engineering

Shahid Rajaee University

2021 – 2025