

# Mostafa Shirvani

DEVOPS ENGINEER · BACKEND DEVELOPER

Torino, Italy

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“DevOps Engineer and Backend Developer specializing in cloud infrastructure automation.”

## About Me

DevOps Engineer and Backend Developer with professional experience in cloud infrastructure automation. Skilled in Python, Go, Docker, and AWS services. Strong track record of improving uptime, speeding deployments, and reducing manual work.

## Skills

Programming Languages	Python, Go, Java, C
Scripting Languages	Python, Shell, Bash
Cloud & DevOps	AWS (EC2, RDS, S3, CloudFront, ECR, Route53, ACM, Lambda, Fargate), Docker, Terraform
Databases	PostgreSQL, MongoDB, MariaDB, Redis, Memcached
CI/CD & Automation	GitLab CI, Jenkins, GitHub Actions, n8n
Frameworks & Libraries	FastAPI, Gin, Express.js, NumPy, SciPy
Go Ecosystem	net/http, Gin, SCS (sessions), Bubble Tea (TUI)
Development Tools	Git, REST APIs, NodeJS
System Administration	Linux Administration, Troubleshooting Linux Systems
Architecture & Processes	Microservices, DevOps Tools, Agile/Scrum Workflows, Version Control Best Practices
Development Approaches	Automation Scripting, Cross-Platform Development
Learning/Interests	Kubernetes, Ansible, Kafka, Azure

## Experience

### StarView

Torino, Italy

#### CLOUD ARCHITECT

Jun. 2025 - Present

- Supervise cloud infrastructure for disaster assessment platform serving insurance companies. Achieved **99.99% uptime**.
- Designed and implemented an automated image processing pipeline utilizing ML models with Python and Bash, increasing image processing **throughput by 10x** and reducing manual intervention by **90%**.
- Deployed complete CI/CD automation on **AWS** using **GitLab CI**. Reduced release time from **hours to 15 minutes**.
- Architected microservice backend architecture using **Docker** and **Traefik** reverse proxy.
- Transformed legacy monolithic application to **cloud-agnostic microservice architecture**. Eliminated vendor dependency.
- Spearheaded the streamlining of **4 critical dependency management processes** utilizing Docker containerization, leading to a **40% reduction in production errors** and a **80% improvement in system uptime**.
- Supervise **3-person backend team** within **8-person technical organization**. Oversee entire cloud infrastructure.

### Academic Projects

GitHub

#### BACKEND & DEVOPS DEVELOPMENT

- Created **FastAPI-based REST API** for multimedia conversion. Supported **5+ file formats**.
- Engineered **asynchronous processing** using Python. Enabled concurrent handling of multiple media operations.
- Leveraged **FFmpeg** for video and audio transformations. Converted across **6 popular formats**.
- Constructed **Docker containerization** for entire application. Ensured consistent deployment across **3 environments**.
- Established **GitHub Actions CI/CD pipeline** for automated AWS deployment. Eliminated manual deployment steps.

## Projects

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### Go Server Management Tool

[GitHub](#)

CLI DEVOPS UTILITY

- Developed command-line tool using Go and **Bubble Tea TUI framework** for server management, SSH connections, and file transfers. Utilized **4 Go packages** including crypto/ssh and io libraries, helping master Go interfaces which was the primary learning challenge.

### SnippetBox Web App

[GitHub](#)

GO WEB DEVELOPMENT

- Created full-stack web application using **Go's net/http, SCS sessions**, and secure authentication patterns. Integrated **3 frameworks** (net/http, SCS, bcrypt) to develop proficiency in Go web development and interface implementation.

### Go Bill Splitter

[GitHub](#)

GO WEB APPLICATION

- Engineered web application for expense splitting with **Gin framework and GORM ORM**. Implemented Go template files for server-side content rendering, expanding Go web development skills with **3 core technologies** (Gin, GORM, templates).

## Education

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### Politecnico di Torino

*Torino, Italy*

B.SC. COMPUTER ENGINEERING

*Oct. 2022 - Present*

### University of Tehran

*Tehran, Iran*

B.SC. MINING ENGINEERING

*Oct. 2017 - May. 2021*

## Languages

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**Persian** Native (5/5)

**English** Fluent (C1 4/5)

**Italian** Basic (A1 1/5)