MEHDI RAZA

📍 Dubai, UAE – Golden-Visa Holder 📞 +971 50 745 9015 ✉ mehdirazajaffri@gmail.com

in mehdi-raza-jaffri ⦿ mehdirazajaffri ⊕ https://mehdiraza.dev

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PROFESSIONAL SUMMARY

- Senior Software Engineer and **AWS Certified** with **8+ years** of expertise in designing and deploying scalable **backend systems** and cloud-native **AI/ML** solutions on **AWS**. Specialized in **Python** and advanced **event-driven architectures**.
- Spearheaded the implementation of **RAG (Retrieval-Augmented Generation)** solutions, driving an **80%** improvement in operational efficiency, a **90%** reduction in a cloud infrastructure costs, and a **40%** boost in system reliability.
- Led **Agile** development teams to successfully automate the **CI/CD** lifecycle, streamlining software delivery and achieving a **70%** reduction in deployment cycle times.

TECHNICAL SKILLS

- Python
- FastAPI
- Django/drf
- Java
- Spring Boot
- Node.js
- Go

- AWS Lambda
- Step Functions
- SageMaker
- Serverless Framework
- AWS Glue
- AWS CDK

- LangGraph
- Pydantic AI
- Pandas
- PyTorch
- OpenCV
- scikit-learn
- Next.js

- TypeScript
- React Native
- Flutter
- Docker
- Jenkins
- GitHub Actions
- Ansible

- NATS
- RabbitMQ
- New Relic
- Sentry
- Microservices
- Event-Driven
- REST

- GraphQL
- PostgreSQL
- MySQL
- DynamoDB
- MongoDB
- Redis
- Terraform

PROFESSIONAL EXPERIENCE

Senior Software Engineer   Jan 2024 – Oct 2025

Aether | Dubai, UAE (Remote)

- Architected an ML-based rebill optimization system using **AWS SageMaker**, increasing successful transactions by **15%** through intelligent retry timing.
- Developed an LLM-powered chatbot with **RAG-based query generation**, reducing manual data lookup time by **80%** and supporting over 100 internal users with real-time business insights. Deployed fine-tuned LLMs to production using SageMaker endpoints.
- Designed and developed **microservices** based backend systems for e-commerce, memberships, and chat platforms to support scalable and fault-tolerant applications.
- Led the implementation of a **NATS messaging architecture** with clustered configuration, improving system reliability by **40%** and reducing latency by **50%**.
- Automated deployment pipelines using **Ansible, Docker, and Jenkins**, reducing provisioning time by **70%**.
- *Tech Stack:* Python, FastAPI, Java, Spring Boot, Node.js, AWS (Lambda, Glue, SageMaker, ECS), MongoDB, NATS, Go.

Lead Full Stack Developer   May 2022 – Dec 2023

OJ Lifestyle | Dubai, UAE

- Owned the end-to-end **agile development lifecycle**, improving team delivery velocity by **30%** through refined sprint planning and automation.
- Architected a highly available, scalable loyalty platform, supporting over **5,000 active user subscriptions** annually.
- Developed a vendor-facing portal empowering **50+ vendors** to manage offers independently, increasing vendor engagement by **40%**.
- Engineered a resilient payment solution using Stripe's subscription, achieving a **99.99% payment success rate** and reduced involuntary churn by **25%**.
- Streamlined CI/CD pipelines using GitHub Actions, reducing deployment time by **60%**.

- *Tech Stack:* Python, Django, MongoDB, Stripe, Next.js, Nest.js, Flutter, AWS (Lambda, ECS, EC2, ALB, RDS, S3, etc...).

Full Stack Developer   **Mar 2021 – Apr 2022**
Berkeley Assets | Dubai, UAE

- Designed a scalable, **serverless backend** using AWS Lambda and Django, reducing infrastructure costs by **40%**.
- Built and maintained internal CRMs, boosting team productivity by **25%** through process automation.
- Developed a custom Django Admin back office with exposed DRF APIs and integrated payment gateways (Stripe, Telr), achieving **99.9% transaction reliability**.
- Built cross-platform mobile applications (Assets Portfolio - Novus), increasing feature delivery speed by **50%**.
- *Tech Stack:* Python, Django REST Framework, React Native, AWS Stack, Jenkins, Bitbucket Pipelines.

Software Engineer   **Jan 2020 – Mar 2021**
sellanycar.com | Dubai, UAE

- Developed an AWS-based serverless image-processing system using **OpenCV**, efficiently handling millions of uploads and reducing processing time by **40%**.
- Optimized orchestration by coordinating AWS Lambdas with **AWS Step Functions**, reducing execution time by **80%**.
- Integrated microservices with **GraphQL** and **RabbitMQ** for asynchronous communication, improving system resilience and performance by 30%.
- Established CI/CD pipelines using Jenkins, reducing manual deployment errors by **90%**.
- *Tech Stack:* Python, AWS (Lambda, Step Functions, CloudFormation), Node.js, GraphQL, RabbitMQ, OpenCV, PostgreSQL.

Software Engineer I/II   **Feb 2016 – Dec 2019**
VentureDive | Karachi, Pakistan

- Engineered and maintained microservices-based systems for **vistajet.com**, collaborating with remote teams in Brazil and Ukraine to build enterprise-scale applications.
- Built Careem driver APIs and dashboards for **Careem**, enabling driver management and real-time monitoring.
- Led full-stack development at **servicemarket.com**, while streamlining CI/CD processes.
- Migrated **beatthemarket.com** legacy infrastructure from Linode to AWS EC2, achieving a 90% reduction in server costs and improving system reliability by 80%.
- Architected the **zGlue ChipBuilder** CAD platform, enabling electronics engineers to visualize and manufacture IoT circuits by developing modular microservices.
- *Tech Stack:* Python, Django/DRF, Node.js, PHP, React, Microservices, Jenkins, AWS, Tableau.

EDUCATION

- **Bachelor of Computer Science**   2012 – 2015
  University of Karachi

CERTIFICATIONS AND AWARDS

- *AWS Certified Solutions Architect - Associate*   2016
- *Winner - VentureDive's Hackathon*   2018