

MEHDI RAZA

Dubai, UAE | Golden-Visa Holder | +971 50 745 9015 | mehdirazajaffri@gmail.com
<https://linkedin.com/in/mehdi-raza-jaffri> | <https://mehdiraza.dev> | <https://github.com/mehdirazajaffri>

PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years of experience building scalable backend systems, cloud-native architectures, and high-performance distributed applications across fintech, e-commerce, and lifestyle domains. Proven track record of improving reliability, reducing operational overhead, and delivering measurable business outcomes through clean architecture, automation, and modern AI/ML tooling. Skilled in building microservices, performance optimization, and building solutions that drive real product impact.

TECHNICAL SKILLS

- **Backend & APIs:** Python, FastAPI, Django, Java, Spring Boot, Node.js, Go
- **Cloud & Serverless:** AWS (Lambda, Step Functions, API Gateway), Serverless Framework, CloudFormation, CDK, Terraform
- **Data, AI/ML & Analytics:** LangChain, LangGraph, AWS SageMaker, AWS Glue, Pandas, PyTorch, OpenCV
- **Frontend & Mobile:** React, Next.js, TypeScript, React Native, Flutter
- **DevOps & Automation:** Docker, Jenkins, GitHub Actions, Bitbucket Pipelines, Ansible
- **Messaging & Integrations:** NATS, RabbitMQ, Headless CMS (Strapi, Prismic), Payment Gateways (Stripe, Telr)
- **Observability & Reliability:** Datadog, CloudWatch, Grafana, Kibana, New Relic, Sentry
- **Databases & Storage:** PostgreSQL, MySQL, DynamoDB, MongoDB, Redis
- **Architecture:** Microservices, Serverless Design, Event-driven Systems, REST, GraphQL

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Jan 2024 – Present

Aether | Dubai, UAE | Remote

- Architected an ML-based rebill optimization system using AWS Glue and SageMaker, increasing successful transaction success rates by **15%** through intelligent retry timing.
- Developed an AI-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 via SageMaker endpoints for production inference.
- Designed and developed microservices-based backend systems for e-commerce, memberships, and chat platforms to support scalable and fault-tolerant applications.
- Automated deployment pipelines using Ansible, Docker, and Jenkins, reducing setup and provisioning time by **70%**.
- Led the implementation of a NATS messaging architecture with clustered configuration and custom authentication, improving system reliability by **40%** and reducing latency by **50%**.
- **Tech:** Python, FastAPI, Java, Spring Boot, Node.js, AWS Lambda, AWS Glue, AWS SageMaker, MongoDB, NATS, AWS ECS, Go

Lead Full Stack Developer

May 2022 – Dec 2023

OJ Lifestyle | Dubai, UAE

- Led end-to-end agile development lifecycle, from requirements gathering to production deployment, improving team delivery velocity by **30%**.
- Designed and implemented the core architecture for a loyalty platform, taking it from prototype to production and supporting over **5,000** active user subscriptions annually.

- Developed and launched a vendor-facing portal, empowering **50+** vendors to manage coupons and offers independently, increasing vendor engagement by **40%**.
- Integrated Stripe's subscription management system to support recurring payments, achieving a **99.99%** payment success rate and reducing churn-related issues by **25%**.
- Streamlined CI/CD pipelines using GitHub Actions, reducing deployment time by **60%** and increasing release frequency.
- Established automated testing and monitoring processes, reducing post-release defects by **50%** and achieving **90%** code coverage through comprehensive unit testing.
- **Tech:** Python, Django, MongoDB, Stripe, React, Next.js, Flutter, AWS, GitHub Actions

Full Stack Developer

Mar 2021 – Apr 2022

Berkeley Assets | Dubai, UAE

- Built and maintained internal CRMs with a UK-based team, boosting productivity by **25%** through process automation.
- Developed a custom Django Admin back office exposing DRF APIs and integrated payment gateways (Stripe, Telr), achieving **99.9%** transaction reliability.
- Built cross-platform apps using React Native, increasing delivery speed by **50%**.
- Designed a scalable, serverless backend using AWS Lambda, Django, and AWS ECS, cutting infrastructure costs by **40%**.
- Conducted usability testing and incorporated user feedback, leading to a **50%** improvement in user satisfaction and task completion rates.
- **Tech:** Python, Django, Django REST Framework, React Native, AWS Lambda, AWS ECS, PostgreSQL, MySQL

Software Engineer

Jan 2020 – Mar 2021

sellanycar.com | Dubai, UAE

- Developed an AWS-based serverless image-processing system in Python using OpenCV, efficiently handling millions of uploaded images and reducing processing time by **40%**.
- Integrated microservices with GraphQL, Step Functions, and RabbitMQ to enable asynchronous communication, improving performance by **30%** and system resilience.
- Optimized orchestration by coordinating AWS Lambdas with AWS Step Functions, reducing execution time by **80%**.
- Established CI/CD pipelines using Jenkins and Bitbucket Pipelines, enabling automated deployments and reducing manual deployment errors by **90%**.
- Optimized database queries using indexing and query optimization techniques, resulting in a **20%** reduction in query response time and improved application performance.
- **Tech:** Python, AWS Lambda, AWS Step Functions, Node.js, API Gateway, S3, GraphQL, RabbitMQ, OpenCV, Jenkins, Bitbucket Pipelines, PostgreSQL

Software Engineer

Dec 2018 – Dec 2019

VentureDive | Karachi, Pakistan

- Designed and developed software applications for the zGlue ChipBuilder CAD platform.
- Architected features for zGlue ChipBuilder, enabling electronics engineers to design, visualize, and manufacture custom electronic circuits by combining IoT components.
- Developed microservices-based systems for user, order, payment, vendor, and inventory management to support a modular, scalable platform.
- **Tech:** Python, Django / DRF, Node.js, React, Microservices

Junior Software Engineer

Feb 2016 – Nov 2018

VentureDive | Karachi, Pakistan

- Engineered and maintained microservices-based systems for **vistajet.com** as a Full Stack Developer, collaborating with remote teams in Brazil and Ukraine to build enterprise-scale applications using React, Node.js, and Java Spring Boot.
 - Led full-stack development for client-facing platforms at **servicemarket.com**, delivering scalable portals using React/Redux.
 - Partnered with cross-functional teams in Dubai to design data-driven solutions, integrating Tableau dashboards and Ratabase for real-time insurance pricing and analytics.
 - Took over the *beaththemarket.com* project from SA team, independently migrating from Linode to AWS EC2, reducing server costs by **90%** and improving system reliability by **80%**.
 - Streamlined CI/CD processes using Jenkins and Git, ensuring consistent, reliable, and automated deployments across multi-tenant environments.
 - **Tech:** Java, Spring Boot, React, Redux, Node.js, MySQL, Jenkins, Tableau, AWS
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EDUCATION

- **Bachelor of Computer Science** 2012 – 2015
University of Karachi
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CERTIFICATIONS AND AWARDS

- *AWS Certified Solutions Architect - Associate* 2016 – 2018
- *X-Factor Award (Venturedive's Hackathon)* 2018