

# MEHDI RAZA

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## PROFESSIONAL SUMMARY

- Senior Software Engineer with **8+ years** of experience architecting scalable **backend systems**, cloud-native systems, and **ML/AI solutions** on **AWS**
  - Expert in **Python** and full-stack development with proven track record of delivering measurable business impact
  - Drove **80%** operational efficiency gains through **GenAI (RAG)** implementations and reduced infrastructure costs by up to **90%**
  - Improved system reliability by **40%** through architectural optimizations and modern engineering practices
  - Experienced in leading agile teams, automating **CI/CD** pipelines, and building production-ready ML models with modern data engineering practices
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## 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 capabilities.
- 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**  
*University of Karachi*

2012 – 2015

## TECHNICAL SKILLS

- |               |                        |                |                       |                 |              |
|---------------|------------------------|----------------|-----------------------|-----------------|--------------|
| • Python      | • Step Functions       | • Pandas       | • Docker              | • CloudWatch    | • PostgreSQL |
| • FastAPI     | • Bedrock              | • PyTorch      | • Jenkins             | • Grafana       | • MySQL      |
| • Django/drf  | • SageMaker            | • OpenCV       | • GitHub Actions      | • Kibana        | • DynamoDB   |
| • Flask       | • Serverless Framework | • scikit-learn | • Bitbucket Pipelines | • New Relic     | • MongoDB    |
| • Java        |                        | • React        |                       | • Sentry        | • Redis      |
| • Spring Boot | • AWS Glue             | • Next.js      | • Ansible             | • Microservices | • Terraform  |
| • Node.js     | • AWS CDK              | • TypeScript   | • NATS                | • Event-Driven  |              |
| • Go          | • LangGraph            | • React Native | • RabbitMQ            | • REST          |              |
| • AWS Lambda  | • Pydantic AI          | • Flutter      | • Datadog             | • GraphQL       |              |

## CERTIFICATIONS AND AWARDS

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|--|------|
| • <i>AWS Certified Solutions Architect - Associate</i> | 2016 |
| • <i>Winner - VentureDive's Hackathon</i>              | 2018 |