

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

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**

2012 – 2015

University of Karachi

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 | • scikit-learn | • Bitbucket | • New Relic | • MongoDB |
| • Java | Framework | • React | Pipelines | • 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

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

2016

2018