

# MEHDI RAZA

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## PROFESSIONAL SUMMARY

Senior Software Engineer with **8+ years** of experience designing scalable **microservices** and cloud-native backend systems. Expert in **Python** and **AWS**, recently driving **80%** operational efficiency gains through **GenAI (RAG)** integration. Proven track record of reducing infrastructure costs by up to **90%**, leading agile teams, and automating CI/CD pipelines to accelerate delivery.

## PROFESSIONAL EXPERIENCE

**Senior Software Engineer** **Jan 2024 – Oct 2025**  
*Aether | Dubai, UAE (Remote)*

- Architected an ML-based rebill optimization system using **AWS Glue** and **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**  
*sellanycar.com | Dubai, UAE*

**Jan 2020 – Mar 2021**

- 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**  
*VentureDive | Karachi, Pakistan*

**Feb 2016 – Dec 2019**

- Engineered and maintained microservices-based systems for **vistajet.com**, collaborating with remote teams in Brazil and Ukraine to build enterprise-scale applications.
- 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.

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## EDUCATION

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

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## TECHNICAL SKILLS

- **Backend & APIs:** Python, FastAPI, Django, Django REST Framework, Flask, Java, Spring Boot, Node.js, Go
- **Cloud & Serverless:** AWS (Lambda, Step Functions, API Gateway), Serverless Framework, CloudFormation, CDK.
- **Data, AI/ML & Analytics:** LangGraph, Pydantic AI, AWS(Bedrock, Sagemaker), PyTorch, OpenCV, scikit-learn
- **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, Event-Driven, REST, GraphQL

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## CERTIFICATIONS AND AWARDS

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