MEHDI RAZA

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PROFESSIONAL SUMMARY

Experienced and results-driven Software Engineer (8+ years) specializing in scalable backend systems and cloud-native architectures across fintech, e-commerce, and lifestyle domains.

- Proficient in Python, FastAPI, Django, Django REST Framework, and Java, with additional experience in Go, and strong expertise in AWS serverless architectures and cloud-native microservices built for performance, reliability, and maintainability.
- Experienced in designing and implementing RESTful APIs, backend services, and data processing / ETL workflows, and in leveraging AI/ML platforms such as LangChain, LangGraph, RAG pipelines, and SageMaker to automate workflows, enhance decision-making, and improve business efficiency.
- Delivered measurable business impact in fast-growing product environments, including: achieving a 25% increase in transaction success rates through backend optimization and driving a 70% reduction in deployment time by implementing CI/CD automation.
- Strong focus on clean architecture, debugging, performance optimization, and innovation, dedicated to building software that delivers reliability, scalability, and real business impact.

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, EC2, ECS, CloudFront, Cognito, CloudFormation, Terraform, AWS CDK, Serverless Framework
- **Data, AI/ML & Analytics:** LangChain, LangGraph, AWS SageMaker, Glue, Pandas, PyTorch, scikit-learn, OpenCV, RAG pipelines
- **Frontend & Mobile:** React, Next.js, TypeScript, React Native, Flutter
- **DevOps & Automation:** Docker, Jenkins, GitHub Actions, Bitbucket Pipelines, Ansible, SAM CLI, Vercel
- **Messaging & Integrations:** NATS, SNS, SQS, Stripe, Telr, PayPal, Checkout.com, Firebase, Twilio, SendGrid, Prismic
- **Observability & Reliability:** Datadog, CloudWatch, Grafana, Kibana, New Relic, Sentry
- **Databases & Storage:** PostgreSQL, MySQL, DynamoDB, MongoDB
- **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 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 using FastAPI, Java Spring Boot, and MongoDB, leveraging AWS Lambda, ECS, and API Gateway.
- 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%.

- Collaborated with cross-functional teams to deliver high-quality, production-ready solutions.

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 with Django, Django REST Framework, and MongoDB, 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.
- Implemented a dynamic and responsive front-end using Next.js and prismic headless CMS, enhancing cross-device user experience and improving user satisfaction scores by 35%.
- Established automated testing and monitoring processes, reducing post-release defects by 50% and achieving 90% code coverage through comprehensive unit testing.

Full Stack Developer   **Mar 2021 – Apr 2022**

Berkeley Assets | Dubai, UAE

- Collaborated with the team in UK to build and maintain internal CRMs, boosting productivity by 25% through process automation.
- Led end-to-end project delivery, from concept to deployment, ensuring on-time, high-quality releases.
- 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 Fargate, cutting infrastructure costs by 40%.
- Conducted usability testing and incorporated user feedback, leading to a 50% improvement in user satisfaction and task completion rates.

Software Engineer   **Jan 2020 – Mar 2021**

sellanycar.com | Dubai, UAE

- Developed an AWS-based serverless image processing microservices-based system in Python using OpenCV, efficiently handling millions of uploaded images and reducing processing time by 40%.
- Integrated microservices with GraphQL, AWS Step Functions, API Gateway, and RabbitMQ as a message broker to enable asynchronous communication between microservices, improving system performance by 30% and increasing resilience through decoupling.
- Integrated WebSocket support in the mobile app using Ionic and Apollo Server to enable real-time updates for customers.
- 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%.
- Achieved 90% code coverage through comprehensive unit testing and post-production validation, ensuring high code quality and system reliability.
- Optimized database queries using indexing and query optimization techniques, resulting in a 20% reduction

in query response time and improved application performance.

- Leveraged a diverse cloud-native stack cloudformation and Serverless Framework, and AWS services like Lambda, Step Functions, API Gateway, and S3.

Software Engineer   **Dec 2018 – Dec 2019**

VentureDive | Karachi, Pakistan

- Full Stack Developer at *zGlue*, designed and developed software applications for the zGlue ChipBuilder CAD platform using Python, django rest framework, Node.js, and React.
- 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 different services like user management, order management, payment management, vendor management, inventory management and etc.

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, MySQL, Java Spring Boot, Episerver, and Jenkins.
- Led full-stack development for client-facing platforms at *servicemarket.com*, delivering scalable portals using CakePHP, Angular, and 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 migrated from linode server to AWS, EC2. Reduced server costs by 90% and improved system reliability by 80%.
- Streamlined CI/CD processes using Jenkins and Git, ensuring consistent, reliable, and automated deployments across multi-tenant environments.

EDUCATION

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

CERTIFICATIONS AND AWARDS

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