

Muhammad Umair Virk

Backend & Payments Engineer

United Arab Emirates · umairrafi672@gmail.com · linkedin.com/in/muhammad-umair-virk-286477140 · github.com/MUumairVirk · muhammad-umair.pages.dev

PROFESSIONAL SUMMARY

Backend engineer with 4+ years building production APIs on AWS. Owner of a .NET payments service supporting six GCC gateways, 25 payment routes, and auto-renewal that handled about 11,000 renewals in 2025 (confirm with orders/finance before interviews). Work across C#, Python, Go, and TypeScript — from the original Python platform to Native AOT Lambdas, ECS containers, and L2 support for live payments and releases. 1,514 release/ops requests since 2023; 171 production issues delivered Jun–Oct 2026.

IMPACT AT A GLANCE

- ~11,000 auto-renewals handled in 2025 (operational reporting; confirm source)
- 6 payment gateways; 25 routes migrated PHP → .NET (strangler cut-over)
- 10+ product and membership launches since 2023 (GCC XL Jun 2026, Qatar 2027)
- 14 Python APIs rewritten as Native AOT Lambdas; co-owned monorepo Lambda migration
- 1,514 Jira DVOP release/ops requests since 2023

CORE SKILLS

Languages: C# / .NET 8–10, Python 3.11 (Flask, FastAPI, Celery), Go, SQL, TypeScript (Fastify), HCL

Backend & cloud: AWS Lambda (Native AOT, Go), ECS Fargate, API Gateway, Step Functions, Dapper, REST, JWT

Payments: Checkout.com, Adyen, Tap, Tamara, Tabby, Atome; Apple Pay / Google Pay; webhooks, refunds, auto-renewal

Data & search: MySQL/Aurora, Redis, OpenSearch, Elasticsearch, AWS Personalize, Glue, Atlas migrations

Delivery: Terraform, Docker, GitHub Actions, CloudWatch, Sentry, RDS Proxy (IAM auth)

PROFESSIONAL EXPERIENCE

Software Engineer, Backend · The Entertainer · UAE Jan 2023 – Present

- Own .NET payments service on ECS Fargate — six gateways, auto-renewal/consent logs, two-level cache, IAM DB auth, health probes and rollback
- Migrated 25 payment routes from PHP with response-shape parity and route-by-route ALB cut-over
- 171 production issues (Jun–Oct 2026); 1,514 release/ops requests; L2 for payments, orders, accounts, reconciliation
- 10+ launches including GCC XL (Jun 2026) and Qatar 2027; config-driven upgrade rules
- Python platform: Flask API v65–801, Personalize pipeline, cron/Glue/search jobs, consent and account deletion
- Co-led 14 APIs → Native AOT and shared FCM push library; Go delivery/call-centre Lambdas

AWS Developer (Python Backend) · Terafort · UAE Sep 2021 – Dec 2022

- Backend on eShaafi telehealth — serverless microservices (Lambda, API Gateway, DynamoDB, S3)
- REST APIs, payment gateways, Agora.io video; Scrum Master for Agile delivery

EDUCATION

MS Computer Science · 2023

BS Computer Science · University of Engineering and Technology (UET), Lahore · 2020

ADDITIONAL

Languages: English, Urdu