Abdul Mannan

Senior Backend Developer | DevOps | FastAPI | Django & DRF | Cloud

mannanforge@gmail.com • +923402480258 • Lahore, Pakistan • LinkedIn • GitHub • Portfolio

PROFESSIONAL SUMMARY

Results-driven Senior Backend Developer with 3+ years of hands-on experience architecting and delivering high-performance, production-grade systems using FastAPI, Django, and Django REST Framework. Deep expertise in microservices design, containerised deployments (Docker/Kubernetes), CI/CD automation, and distributed task queues (Celery/Redis). Proven track record across fintech, e-commerce, and food-tech domains, with strong command of AWS cloud infrastructure, ELK Stack observability, secure authentication (JWT/OAuth 2.0), and scalable PostgreSQL data modelling. Adept at owning system design end-to-end — from API architecture to cloud orchestration and load testing.

TECHNICAL SKILLS

Languages: Python (primary), SQL, Bash

Frameworks & APIs: FastAPI, Django, Django REST Framework (DRF), Flask, Pydantic, SQLAlchemy

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis

DevOps & Cloud: Docker, Docker Hub, Kubernetes (K8s), Helm, GitHub Actions CI/CD, AWS EC2 & S3

Async & Messaging: Celery, Redis, WebSockets, Twilio (WhatsApp/SMS), Firebase FCM

Observability: ELK Stack (Elasticsearch, Logstash, Kibana), LogFire, Apache JMeter

Auth & Security: JWT, OAuth 2.0, RBAC, FastAPI Dependency Injection, Custom Middleware

Tools: Git, GitHub, Postman, PyCharm, Selenium, Pandas, Chrome DevTools

Monitoring & Observability: Prometheus, Grafana, Loki, Elasticsearch, Logstash, Kibana, LogFire, Apache JMeter

PROFESSIONAL EXPERIENCE

Senior Backend Developer — Crypthon Technologies *Feb 2025 – Present | Lahore, Pakistan*

- Architected modular **FastAPI microservices** with async endpoints, cutting average API response time by 30% and improving system throughput under concurrent load.
- Engineered multi-stage **Dockerfiles** and published versioned images to **Docker Hub**, reducing container image size by ~40% and standardising deployment across environments.
- Built and owned end-to-end **CI/CD pipelines (GitHub Actions)** — automated linting, unit tests, Docker build/push, and rolling Kubernetes deployments, shrinking release cycles from days to hours.
- Deployed and managed **Kubernetes** clusters with Helm charts, Horizontal Pod Autoscalers (HPA), and namespace-level RBAC, achieving zero-downtime production releases.
- Integrated **AWS S3** with pre-signed URL workflows for secure, scalable file management and asset delivery across microservices.
- Implemented **ELK Stack (Elasticsearch, Logstash, Kibana)** for centralised logging and real-time alerting, reducing mean time to diagnose production incidents by ~50%.
- Designed custom **JWT encryption, OAuth 2.0** flows, and fine-grained FastAPI dependency injection for secure, role-based endpoint access control.
- Conducted stress and load testing with **Apache JMeter**; identified and resolved bottlenecks to sustain 10× peak traffic without degradation.
- Integrated **Twilio** (WhatsApp & SMS) and **Firebase FCM** for multi-channel push notification delivery across mobile and web clients.

- Managed distributed async task queues and scheduled jobs with **Celery + Redis**, enabling reliable background processing at scale.
- Pioneered **FBR e-invoicing API integration** — engineered secure invoice submission workflows and ensured full tax-authority compliance for fintech clients.
- Explored **Ollama LLM** model integration and inference optimisation, laying technical groundwork for upcoming AI-powered product features.

Associate Python Developer — **Revocode** *May 2024 – Feb 2025 | Lahore, Pakistan*

- Built and deployed production **RESTful APIs using FastAPI**; containerised services with Docker and deployed to AWS EC2, ensuring high availability and horizontal scalability.
- Established CI/CD workflows with **GitHub Actions**, automating test execution, Docker image builds, and environment deployments, reducing manual release effort by ~70%.
- Managed **AWS EC2 and S3** infrastructure, implementing cost-optimised storage policies and uptime monitoring for critical API services.
- Developed **Selenium-based** browser automation scripts, eliminating repetitive manual QA workflows and improving test coverage.

Python Automation Engineer — **BlitzCoFluence** *Nov 2023 – May 2024 | Lahore, Pakistan*

- Developed **Selenium automation** scripts that reduced manual operational effort by ~60% through end-to-end workflow automation across multiple client platforms.
- Built production-grade web scrapers using **Pandas and Chrome DevTools**, delivering clean, structured datasets used in downstream analytics pipelines.
- Integrated external AI APIs to enrich scraped **data pipelines**, adding intelligent classification and transformation layers.

KEY PROJECTS

GrabNGo — International Order Fulfilment Platform

Python · FastAPI · PostgreSQL · Firebase · AWS S3 · Celery · Redis · WebSockets · Docker · Kubernetes

- Engineered a scalable backend for international peer-to-peer order fulfilment via traveller networks, supporting thousands of concurrent order-matching requests.
- Designed real-time order-matching engine using WebSockets and Celery async tasks, with JWT auth, RBAC, and AWS S3 file management for delivery documentation.
- Containerised with Docker and orchestrated on Kubernetes with auto-scaling policies, enabling elastic scaling under variable demand.

Laen Daen — Fintech Digital Wallet & Invoicing Platform

Python · FastAPI · PostgreSQL · Firebase · AWS S3 · Celery · Redis · Docker

- Developed scalable REST APIs for invoicing, budgeting, and digital wallet management, processing high-volume financial transactions with full audit trail support.
- Integrated payment gateway APIs and built Celery/Redis background task processors for transaction logging, reconciliation, and scheduled financial jobs.
- Deployed via Docker with a GitHub Actions CI/CD pipeline, achieving consistent zero-downtime releases in a regulated fintech environment.

Hunger Delights — Food-Tech Reservation & Ordering Platform

Python · FastAPI · PostgreSQL · Firebase · Celery · Redis · WebSockets · Docker

- Built backend services for restaurant profiles, dynamic menus, real-time reservations, and pickup orders, serving multiple restaurant clients.
- Designed real-time booking workflows using WebSockets and optimised PostgreSQL schema for sub-100ms menu retrieval and concurrent reservation handling.

EDUCATION

Bachelor of Science in Computer Science — Chanab College Faisalabad, Pakistan