

Muhammad Sikandar Mustafa

Software Engineer

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PROFESSIONAL SUMMARY

Python Backend Developer with 3 years of experience building production-grade systems. Specializes in RESTful API development using FastAPI and Django, with expertise in microservices architecture, authentication (JWT/OAuth)(RBAC/ABAC/ReBAC, and distributed task processing. Proficient in PostgreSQL, Redis caching, and containerized deployments. Proven ability to integrate AI/ML services and deliver scalable infrastructure in agile environments.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, SQL

Frameworks: FastAPI, Django REST Framework, Flask, Pydantic, SQLAlchemy, Celery

Databases: PostgreSQL, Redis, Supabase

Cloud & DevOps: GCP (Cloud Tasks, Pub/Sub), Docker, Git, CI/CD

Architecture: RESTful APIs, Microservices, Multi-tenant, API Gateway, JWT/OAuth, Rate Limiting, Caching, Message Queues

AI/ML: OpenAI, Gemini API, LangChain, LangGraph, Hugging Face

PROFESSIONAL EXPERIENCE

Backend Developer

2026 – Present

ThinkRealty

Remote

- Accelerated development of a **multi-tenant real estate CRM** from 50% to 90% completion within 6 months by designing and developing core backend microservices.
- Implemented API Gateway for modular communication between microservices and multi-tenant support in a 3-layer architecture.
- Configured centralized Redis-based cron jobs with Celery to manage scheduled background tasks across services.
- Built a **multi-modal WhatsApp LLM** agent for automated customer interactions and integrated **Bayut** and **PropertyFinder** APIs for real-time property listings.

Backend Software Engineer

2024 – 2026

Rivon AI

Onsite

- Built async REST APIs with **FastAPI**, achieving 40% faster response times; designed schemas with SQLAlchemy/Alembic for zero-downtime deployments
- Optimized PostgreSQL queries through strategic indexing, reducing execution time by 35%
- Implemented JWT authentication, rate limiting, and Redis caching for secure, high-performance endpoints
- Established Docker workflows and led code reviews, reducing frontend integration time by 30%

Software Engineer

2023 – 2024

Enigmatix (Pvt) Ltd

Onsite

- Developed and maintained web applications using **Python** and JavaScript, collaborating with senior engineers on feature implementation
- Built responsive frontend components with HTML/CSS and integrated REST APIs for data-driven functionality
- Participated in code reviews, wrote unit tests, and contributed to agile sprints with cross-functional teams

PROJECTS

Proplytics - Multi-Tenant Real Estate CRM

2026

Backend Developer

FastAPI, API Gateway, Celery, Redis

- Architected multi-tenant CRM backend with a 3-layer microservices architecture for a Dubai real estate agency.
- Implemented an API Gateway for modular communication between microservices and multi-tenant support.
- Set up centralized Redis-based cron jobs with Celery to manage scheduled background tasks across services.
- Built a multi-modal WhatsApp LLM agent for automated customer interactions and integrated Bayut and PropertyFinder APIs for real-time property listings.

Scaffold – AI Agent Platform for Creatives

2025

Lead Backend Engineer

FastAPI, Supabase, Celery, Redis

- Architected backend for creatives to build AI agents for content generation (radio ads, logos, articles, social media)
- Implemented Supabase (Auth/RBAC, Storage); built Celery/Redis queue; integrated Fal AI, OpenAI, LangSmith
- Developed **Stripe** payments (subscriptions, credits), admin dashboard, and client marketplace

TruckRoute Planner – HOS-Compliant Route Planning API

2024

Backend Developer

Django REST Framework, Celery

- Built **Django** API for HOS-compliant truck routing with ELD log generation for 70-hour/8-day cycles
- Implemented FMCSA compliance engine and spatial queries for truck stops, fuel stations, route optimization

DMT Backend – Device Management System

2024

Backend Developer (Team)

FastAPI, GCP

- Developed Task Management module with hierarchical structures, SMS-based approval workflows
- Built audit logging with change detection and notifications via **GCP** Pub/Sub; created analytics endpoints
- Created detailed Documents Management System using **Amazon S3 - Cloud Object Storage** for managing all business documents

EDUCATION

Bachelor of Science in Computer Science (BSCS)

2021 – 2025

The Islamia University of Bahawalpur

Bahawalpur, Pakistan

PROFESSIONAL ATTRIBUTES

Problem-Solving | System Architecture | Code Review | Technical Documentation | Remote Collaboration | Agile/Scrum