

Ammad Khalil

Faisalabad, Pakistan | theammadkhalil@gmail.com |
+92 304 6875750 | linkedin.com/in/ammadkhalil | github.com/ammadkhalil

PROFESSIONAL SUMMARY

AI Engineer and Python Backend Developer with 3+ years of production experience building scalable backend systems and AI-powered applications. Specialized in LLM integration, multi-agent orchestration using LangGraph and LangChain, and RAG pipeline development. Strong background in FastAPI, Django, Flask, and DevOps (Docker, AWS, CI/CD). Runner-up at the World Startup Championship 2023.

TECHNICAL SKILLS

AI / LLM: LangGraph, LangChain, RAG Pipelines, Prompt Engineering, Multi-Agent Systems, LLM APIs Integration, Vector DBs

Backend: Python, FastAPI, Django, Flask, REST APIs, Microservices, Celery

Cloud & DevOps: AWS (Lambda, EC2, S3), Docker, Kubernetes, CI/CD (Jenkins), DigitalOcean

Databases: PostgreSQL, MySQL, MongoDB, Firebase Firestore

Other: React.js, Next.js, Java, JavaScript, Git, Kong API Gateway, FFmpeg

WORK EXPERIENCE

AI Engineer | Techloset Solutions, Faisalabad | 2024 - Present

- Designed and built multi-agent AI systems using LangGraph and LangChain, enabling autonomous, stateful workflows for complex multi-step task orchestration
- Integrated LLM API into production backend services with prompt engineering, context management, and structured output handling
- Built RAG pipelines connecting vector databases to FastAPI services, delivering context-aware AI responses at scale
- Owned end-to-end client delivery — requirement gathering, sprint planning, demos, and post-launch support.
- Managed AWS infrastructure (Lambda, EC2, S3) and CI/CD pipelines (Jenkins) across multiple production projects.

Python Backend Developer | Techloset Solutions, Faisalabad | 2023 - 2024

- Built and maintained RESTful APIs using FastAPI, Django, and Flask.
- Designed relational database schemas (PostgreSQL, MySQL), optimized queries, and managed production migrations
- Worked with NoSQL databases (MongoDB, Firebase Firestore).
- Configured Docker containers, CI/CD pipelines, and production server environments on AWS and DigitalOcean
- Built third-party integrations: SMS gateways, email (SendGrid/SMTP), push notifications, and payment flows

PROJECTS

Wrench.ai - *LangGraph · AWS Lambda · Jenkins · Python*

Led solo development and client communication for an AI-agent-powered platform. Implemented core AI agents forming the main application functionality, built AWS Lambda functions, managed Jenkins deployments, and ensured high code quality throughout.

Cheese - *LangGraph · FastAPI · React · Ontology Engine*

Built an AI agent that interprets natural language to generate network configurations automatically. Implemented a rules/ontology engine, full LLM integration layer, and a React frontend for non-technical users.

Tkiero - *LangGraph · AWS · Python*

Built an AI-powered customer support chatbot using LangGraph for multi-turn conversational workflow, deployed on AWS.

Podcastpal - *Kubernetes · Kong · Python · DigitalOcean*

Built complete microservices infrastructure using Kubernetes and Kong; deployed all services on DigitalOcean, mentored junior developers, conducted code reviews, and actively developed and maintained core application features and services.

Receptionist AI - *RAG · Python · Embeddings*

Developed backend services and architected a RAG-based AI system leveraging hotel-specific knowledge sources, designing a SaaS-based solution scalable across multiple hotel clients.

Billionviews - *Flask · Celery · FFmpeg*

Led backend development with Celery workers and FFmpeg for video processing; managed full production deployment.

Resumas - *Flask · LLM · Screening & Analysis*

Developed and maintained the backend for a career-focused web and mobile platform, building APIs and core business logic for resume enhancement, job discovery, and LinkedIn optimization features.

TestingMom - *Django · Python · WordPress*

Developed backend features, APIs, and database models using Django, while also building custom WordPress pages and frontend components.

EDUCATION

BS Information Technology | **University of Education, Lahore** | 2019 – 2023 | 3.67 / 4.0

Final Year Project: AI-based Breast Cancer Detection System using thermal imaging (non-invasive mobile self-test)

PROFESSIONAL CERTIFICATIONS AND COURSES

IBM AI Developer Professional Certificate | IBM - Coursera | **97.10%**

Google Data Analytics Professional Certificate | Google - Coursera | **95.12%**

Programming for Everybody (Python) | Univ. of Michigan - Coursera | **99.65%**

University of California San Diego: Java Programming (Coursera) | **99.33%**

Macquarie University, Sydney: Excel Skills for Business (Coursera) | **97.54%**

ACHIEVEMENTS

World Startup Championship – Runner Up: SEE Pakistan — competing alongside teams from USA, UAE, China, Saudi Arabia, Malaysia, Türkiye, Afghanistan

Innovative Lyallpur – University Ambassador: Represented University of Education; received top praise from judges for AI-powered final year project