

MUHAMMAD AHMAD FAIZAN

AI & Backend Engineer

Python • FastAPI • AI Systems • AI Agents • RAG • Automation

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SUMMARY

AI & Backend Engineer specializing in designing and building production-ready AI systems, scalable backend services, and intelligent automation solutions. Experienced developing AI agents, multi-agent systems, Retrieval-Augmented Generation (RAG) pipelines, and RESTful backend architectures using Python, FastAPI, LangChain, LangGraph, and PostgreSQL. Delivered AI-powered applications and automation solutions for local and international clients across e-commerce, finance, and business operations. Passionate about building clean, scalable, and maintainable software that transforms AI capabilities into real business value.

CORE EXPERTISE

AI Systems • AI Agents • Multi-Agent Systems • Backend Architecture • Backend Development • Retrieval-Augmented Generation (RAG) • FastAPI • REST API Development • LLM Integration • Workflow Automation • Intelligent Automation • Software Architecture • Database Design

EDUCATION

Bachelor of Science in Software Engineering

2022 – 2026

National Textile University, Faisalabad

Developed strong foundations in software engineering, software architecture, software design, object-oriented programming, algorithms, data structures, databases, operating systems, computer networks, distributed systems, software testing, quality assurance, requirements engineering, project management, and modern software development practices. Applied artificial intelligence and machine learning concepts through project-based development.

PROFESSIONAL EXPERIENCE

Freelance AI & Backend Engineer — Client Projects

2024 – Present

Delivered production-ready AI systems, backend applications, intelligent automation, and business software solutions for local and international clients across e-commerce, finance, and business operations.

- **Shopify AI Marketing Automation** — Engineered 5 production AI automation agents for Shopify store marketing using Zapier and Klaviyo, building customer segmentation logic, personalized lifecycle campaigns, and automated follow-up systems that improved customer engagement.
- **North Steel Financial Modeling** — Built a production financial modeling and forecasting system in Excel, architecting structured revenue, expense, and profit/loss analysis pipelines that delivered decision-ready reporting for management.
- **E-commerce Platform, French Client** — Engineered backend architecture for a production e-commerce platform as part of a two-developer team, owning Django REST API development and PostgreSQL database design in an international collaboration.

Python Developer Intern — SoftBeck Limited

June 2025 – August 2025

- Engineered backend services using Python and FastAPI, building and maintaining production-quality REST APIs and automation workflows.
- Integrated Gemini and LLaMA APIs to power AI-driven market research features, extending backend functionality with LLM-based analysis.
- Reviewed, tested, and refactored production codebases to strengthen code quality, maintainability, and reliability.

KEY PROJECTS

AI Resume Screening SaaS — Infra

- Engineered a FastAPI and PostgreSQL backend for automated resume parsing, candidate management, and AI-powered job matching.
- Implemented JWT authentication and REST APIs to support secure multi-user access.
- Implemented NLP-based skill extraction using spaCy to improve candidate-job matching accuracy.
- Designed scalable SaaS backend architecture supporting resume uploads, filtering, and analytics.

Multi-Agent Research System

- Built a multi-agent research assistant using LangGraph to orchestrate specialized AI agents for research, analysis, and report generation.
- Designed agent orchestration workflows with Server-Sent Events (SSE) streaming for real-time responses.
- Diagnosed and resolved event-loop and API bottlenecks, improving system reliability and responsiveness.

RAG Knowledge Assistant

- Built a Retrieval-Augmented Generation (RAG) knowledge assistant to answer questions grounded in a custom document knowledge base.
- Diagnosed a silent LLM fallback bug that was degrading response quality, and migrated the system to Groq-hosted LLaMA 3.3 70B for more reliable inference.
- Designed the retrieval and generation pipeline to keep responses accurate and traceable to source documents.

AI Customer Support Agent

- Built an AI-powered customer support agent to automatically handle common customer queries using LLM-based conversational logic.
- Designed the system to integrate with existing support workflows, reducing manual response time for routine inquiries.
- Focused on reliable, context-aware responses to improve customer experience while reducing support workload.

AI Lead Qualification Automation

- Built an automated lead qualification workflow in n8n, integrating Groq-hosted LLaMA 3.3 70B to evaluate and score incoming leads against business criteria.
- Connected the workflow to Google Forms, Google Sheets, and Gmail to automatically capture, qualify, and route incoming leads.
- Reduced manual review effort by automating lead assessment and routing, speeding up response to high-value leads.

AI Deepfake Detection Platform

- Built a deepfake video detection platform using a ConvNeXt-Tiny model for 6-class image classification.
- Containerized the system with Docker and deployed it on Hugging Face Spaces for public inference.
- Applied explainable AI techniques to improve prediction transparency and trust in model outputs.

TECHNICAL SKILLS

Programming: Python, SQL

Backend: FastAPI, Django, Flask, REST APIs, JWT

AI Engineering: LangChain, LangGraph, OpenAI, Gemini, Groq, Hugging Face, PyTorch, Scikit-learn, spaCy

Databases: PostgreSQL, ChromaDB, Supabase, MySQL, SQLite, Firebase

Automation: n8n, Zapier, Klaviyo, API Integration

Frontend: Next.js, React, Tailwind CSS, Flutter

Cloud & DevOps: Docker, Git, GitHub, Vercel, Google Cloud

CERTIFICATIONS

- IBM AI Engineering Professional Certificate — IBM (Coursera) (In Progress)
- SQL for Data Science — University of California, Davis (Coursera)
- Python — Kaggle
- Data Science Fundamentals — IBM
- Data Analytics & Business Intelligence — DigiSkills.pk