



MH

MUHAMMAD HASSAN

Python and AI Engineer

<https://developer-hassan.vercel.app/>

PROFESSIONAL PROFILE

Results-driven Python AI Engineer with 5+ years of experience specializing in Generative AI, ML, DL, and API development. Expertise in designing, implementing, and deploying scalable Python backend systems with CI/CD pipelines on AWS, GCP, Azure, and on-premises servers. Skilled in LLM training, scaling, and optimization. Focused on emerging technologies including Multi-Agent Workflows, DevOps, LLMOps, and AGI. Passionate about delivering AI-driven solutions that drive innovation and serve community needs.

PROJECTS

AI INTEGRATIONS FOR INSURANCE APPLICATIONS

<https://insurancemarket.ae/>

AI AVATAR TALKING APPLICATION – GENERATIVE AI

<https://manyface.io/>

APIS AUTOMATION WITH GEN AI

<https://agileloop.ai/>

EMBEDDED PROPRIETARY CHATBOT

<https://cause.systems/>

STREAMING VOICE AGENT

<https://ringneck.ai/>

CODE FIRST AI AGENT FRAMEWORK CONTRIBUTION

<https://github.com/developer-hassan/TaskWeaver>

EXPERIENCE

PYTHON AND AI ENGINEER • MYALFRED LLC • MAY 2024 – PRESENT

Contributed to the development and deployment of AI products at InsuranceMarket.ae and MyAlfred LLC. Integrated 4+ agentic bots in existing products.

SENIOR AI ENGINEER • US STARTUP • JANUARY 2025 – AUGUST 2025

Team leadership and cross department collaboration. Developed and Deployed Python AI Agents for desktop and mobile applications.

PYTHON AND AI ENGINEER • THE OPTIMUM TECH • JUNE 2023 – MAY 2025

Collaborated with Research team and found 6 fine-tuned AI models. Hosted over 10 Python backend APIs on live servers within a year. Resolved production fixes.

AI ENGINEER • RINGNECK AI • OCTOBER 2023 – APRIL 2024

Seamless AI voice-to-voice calling using multiple AI Agents with websockets and webhooks integration. Achieved 1.2 second response time with Multithreading.

BACKEND ENGINEER • MANYFACEIO • JUNE 2023 – APRIL 2024

Complete control of Backend server management and app deployment. Created and integrated AI-backed APIs and managed the team of 10 people.

WEB DEVELOPMENT • NATIONAL FREELANCE TRAINING PROGRAM • JUNE 2021 – DECEMBER 2021

Developed 3 landing pages and 2 responsive websites. Connected SQL database in 1 product to provide data storage for Record Management.



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HARD SKILLS

- Programming – Python, OOP, DSA
- APIs – FastAPI, Django, Flask, Meta GraphAPI
- Gen AI – LangChain, LangGraph, Core Completions, MCP
- LLMs and Providers – OpenAI, Groq, Ollama, OpenRouter, Google Vertex and others
- VectorDB – Pinecone, Mongo, Chroma, FAISS
- SQL and NoSQL – MySQL, MongoDB, Neo4j, Postgres, SQLite
- TensorFlow & Keras
- Finetuning (Hugging Face & TFHub)
- Prompt Engineering, Prompt Tuning
- Version Control – Git, GitHub, GitActions
- Packaging – Docker, Containerization
- Python Deployment – GCP, AWS, Azure, Infomaniak, Hetzner, NameCheap

SOFT SKILLS AND PERSONALITY

- Leadership
- Organizational Behavior
- Good Communicator and Collaborator
- Trustworthy
- Responsible
- Adaptable
- Problem Solver

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

National Textile University, Faisalabad • 2019-2023

> Learnt modern programming languages. Scholarship holder.

INTERMEDIATE IN COMPUTER SCIENCES

Punjab group of colleges, Faisalabad • 2017-2019

> Learnt building blocks of CS. 100% scholarship holder.

MATRICULATION IN COMPUTER SCIENCES

City Grammar School, Faisalabad • 2017

> Learnt CS and its applications. Prefect Society Member.

CERTIFICATIONS

AGENTIC APPLICATIONS WITH LANGGRAPH

LangChain Academy • 2024

DEEP LEARNING WITH TENSORFLOW

Zero to Mastery Academy • 2023

MACHINE LEARNING AND DATASCIENCE BOOTCAMP

Zero to Mastery Academy • 2022

TEACHER ASSISTANT - INTRO TO ARTIFICIAL INTELLIGENCE

National Textile University • 2023

COMPLETE PYTHON PRO BOOTCAMP

App Brewery • 2022



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