

SYED ZULQARNAIN HASSAN

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EDUCATION

New York Institute of Technology (NYIT)

New York, NY

Master of Science in Data Science, CGPA: 3.86/4.0

Sept 2024 – May 2026

- Recipient of the Data Science Graduate Achievement Award
- Relevant Coursework: Database Systems, Big Data Analytics, Artificial Intelligence, Deep Learning

EXPERIENCE

Research Assistant

Jan 2025 – Jun 2026

College of Engineering & Computing Sciences – NYIT

New York, NY

- Conducted AI research with faculty on LLM applications and semantic search using Python, TensorFlow, and SQL
- Developed course scheduling optimization models using Python and Pandas, analyzing data for 3,300+ students
- Collaborated with cross-departmental teams to build predictive models using Python and TensorFlow
- Skills: Python, TensorFlow, SQL, Pandas, LLMs, NLP, Semantic Search

Founder

Apr 2025 – Present

Altechra

New York, NY

- Founded and scaled a software agency to 30+ projects delivering AI-powered applications using Python and AWS
- Led cross-functional teams building SaaS platforms and AI integrations using React, Python, Node.js, and AWS
- Managed end-to-end project lifecycle using Docker, Git, and CI/CD, achieving repeat client engagements
- Skills: React, Python, Node.js, AWS, Docker, LangChain, TensorFlow, Flask

AI/ML Engineer

May 2025 – Present

Upwork

Remote

- Delivered 38+ AI/ML projects (\$40K+, 92% Job Success Score) using Python, PyTorch, and LangChain
- Built an AI virtual try-on system using computer vision (\$7K+) and a WhisperX transcription pipeline
- Architected an autonomous AI chatbot platform with LLM-based systems and scalable architecture for a startup
- Skills: Python, PyTorch, TensorFlow, OpenAI API, LangChain, Computer Vision, NLP

Data Analyst

Aug 2024 – Present

NSK Petroleum Wholesale Inc.

Brooklyn, NY

- Analyzed gas pricing and merchandise data using Excel and Python, contributing to a 15% revenue increase
- Built automated reporting workflows using Excel and Python, tracking inventory, reducing report time by 30%
- Processed daily datasets across multiple store locations using Pandas, delivering trend analyses for supply chain
- Skills: Python, Excel, Pandas, Data Visualization, Statistical Analysis, Reporting

PROJECTS

JobCraft: AI Agent Job Search Platform | Python, LangChain, OpenAI API, AWS

Jun 2025 – Sep 2025

- Built a multi-agent system automating job search, resume matching, and interview prep using LangChain
- Implemented semantic search with vector embeddings and OpenAI API, achieving 85% matching accuracy
- Deployed on AWS EC2 with Docker and GitHub Actions CI/CD, integrating job scraping and resume parsing

MedBot: Healthcare Assistant | Python, LangChain, OpenAI API, Pinecone, Flask

Feb 2025 – May 2025

- Built a RAG-based medical chatbot using OpenAI GPT, LangChain, and Pinecone with Sentence Transformers
- Designed an NLP pipeline with semantic search and custom knowledge base, achieving 94% query accuracy
- Deployed via Flask on cloud infrastructure with end-to-end evaluation using precision, recall, and F1-score

Advanced Material Classification System | Python, TensorFlow, Keras, Sensor Fusion

Sept 2023 – May 2024

- Led a 3-member team building a CNN-based sorting system using TensorFlow and Keras (96% accuracy)
- Built custom datasets with varied lighting and angles, training CNN models with 70/30 split for classification
- Implemented multi-sensor feature extraction pipeline fusing visual, metal, and color data for real-time prediction

TECHNICAL SKILLS

Languages: Python, SQL, R, Java, C++, JavaScript, HTML/CSS

Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, LangChain, Flask, FastAPI, React, Node.js

Developer Tools: Git, Docker, AWS, GCP, CI/CD, Pinecone, PostgreSQL, MongoDB, Tableau, Power BI

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Hugging Face, OpenAI API, Claude API

AI Tools: ChatGPT, Claude, Gemini, Cursor, GitHub Copilot