

HUSSEIN IBRAHIM

AI Engineer

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CAREER OBJECTIVE

Computer Science graduate specializing in Generative AI and LLM-based systems, with hands-on experience building multi-agent AI workflows, RAG pipelines, and tool-augmented LLM applications. Strong interest in applying Large Language Models to real-world engineering systems and AI-driven automation, with a clear focus on practical integration and production-ready solutions.

TECHNICAL SKILLS

- **Cloud Infrastructure:** Deploying and scaling AI models and web applications using AWS (EC2, S3, Lambda).
- **Generative AI & LLMs:** Open-source LLMs (LLaMA 3), HuggingFace Transformers, LangChain, CrewAI, RAG pipelines, embeddings, vector databases
- **AI & ML:** TensorFlow, Keras, PyTorch (basic), Scikit-learn, CNNs, Unsupervised Learning
- **Databases:** ChromaDB, MongoDB, MySQL
- **JavaScript:** Node.js, React, React Native, Express

PROJECTS

AI Resume Screener:

- Build a fully local RAG system using Llama 3, LangChain, ChromaDB, and Streamlit for resume analysis

Chest X-Ray Pneumonia Detection:

- CNN with VGG16 transfer learning achieving 92% accuracy and 97% recall.

Credit Card Fraud Detection:

- Isolation Forest and Autoencoders models on 284k transactions.

Titanic Survival Prediction:

- Random Forest with 81.56% accuracy and feature engineering.

Generative AI Multi-Agent System (CrewAI)

- Designed and implemented a CrewAI-based multi-agent system capable of autonomous task planning and execution.
- Integrated external tools and function calling for real-world workflows (data retrieval, processing, and reasoning).
- Built structured AI workflows using Python for modular and scalable LLM applications.

SOFTWARE EXPERIENCE

- MERN Stack Web Applications
- React Native Mobile Applications

- AI-Integrated Backend Systems (Python)
- Godot Game Development

EDUCATION

Bachelor of Science in Computer Science

Lebanese International University

LANGUAGES

- Arabic (Native)
- English (Fluent)
- French (Good)