DONALD MCKINNEY

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EDUCATION

Bachelor of Science, Computer Science
Illinois Institute of Technology, Chicago, IL
May 2025

GED
Kennedy King College, Chicago, IL
September 2017

PROFESSIONAL SUMMARY

I have a strong background in software engineering with hands-on experience building and deploying AI/ML models end to end. I work comfortably across data preparation, model training, evaluation, and integration into production systems. My experience includes using Python, machine learning frameworks, and cloud-based tools to solve real-world problems, with a focus on writing efficient, maintainable code and delivering practical results rather than academic experiments.

SKILLS

- Python Programming, Machine Learning (ML), Deep Learning
- MLOPs & Model Deployment, Cloud Computing/Platforms
- Version Control, Testing & Debugging
- Containerization (Docker/Kubernetes), Linux,
- Soft Skills, Agile Methodology, Critical Thinking, Problen-Solving
- Natural Language Processing (NLP), Computer Vision
- SQL & Data Manipulation
- Data Structures & Algorithms
- Generative AI & LLMs, Prompt Engineering

WORK HISTORY

November 2025 - January 2026
Project - SkyLink: Multi-modal AI Agent - AI Developer, Oak Park, IL 🚀 SkyLink: Multi-modal AI Airline Agent
An enterprise-grade customer support agent built with **Gemini 1.5 Flash** and **Streamlit**. This project demonstrates an agentic workflow capable of processing text and images while executing real-world tools via function calling.
🚀 Key Features

- **Multi-modal Perception:** Users can upload photos of baggage tags or boarding passes. The agent uses computer vision to extract PNR codes and flight numbers.
- **Autonomous Function Calling:** The agent determines when to call internal Python tools (e.g., track_baggage, get_flight_status) based on user intent.
- **Proactive System Instructions:** Hard-coded professional personas to ensure brand-compliant interactions.

🛠️ Tech Stack

- **Language:** Python 3.10+
- **AI Orchestration:** Google Gemini API (1.5 Flash)
- **UI Framework:** Streamlit

- **IDE:** PyCharm

October 2025 - December 2025
Project - AI Brochure Generator SaaS - AI Developer, Oak Park, IL 🤖 AI Brochure Generator SaaS
A full-stack AI application that transforms any company website into a high-quality marketing brochure in minutes. Built with a robust Python backend and integrated with cutting-edge LLMs and payment processing.
🚀 Features

- **Web Scraping**: Utilizes Playwright to deep-scrape company data and service information.
- **AI Copywriting**: Leverages GPT-4o to transform raw website data into persuasive marketing copy.
- **PDF Generation**: Automatically formats and generates professional brochures using FPDF.
- **Stripe Integration**: Secure $15 payment gateway for brochure generation.
- **Production-Ready**: Served via Nginx and Gunicorn for high performance and stability.

🛠️ Tech Stack

- **Backend**: Python (Flask)
- **AI Model**: OpenAI GPT-4o
- **Scraper**: Playwright (Chromium)
- **Payment**: Stripe API
- **Server**: Nginx + Gunicorn
- **OS**: Linux (Ubuntu/WSL2)

August 2025 - October 2025
Project - Enterprise RAG System - AI Developer, Oak Park, IL Enterprise-Grade RAG System
An end-to-end Retrieval-Augmented Generation (RAG) system built with **Python**, **Flask**, and **LangChain**. This application allows users to upload PDF documents and query them using OpenAI's GPT-4o model with local FAISS vector storage.
🚀 Features

- **PDF Ingestion**: Uses PyPDFLoader to parse documents.
- **Vector Storage**: Local FAISS index for high-speed similarity search.
- **RAG Chain**: Implements RetrievalQA for context-aware answering.
- **Modern UI**: Dark-mode enterprise dashboard with real-time feedback.

🛠️ Tech Stack

- **Backend**: Flask (Python)
- **AI Framework**: LangChain
- **Embeddings**: OpenAI text-embedding-3-small
- **LLM**: OpenAI gpt-4o
- **Database**: FAISS (Facebook AI Similarity Search)

July 2025 - August 2025
Project - Anomaly Detection Pipeline - MLOPs Developer, Oak Park, IL Real-Time Streaming Anomaly Detection Pipeline 🚀 Project Overview
This project is a real-time monitoring system designed to detect system performance anomalies as they happen. It features a custom-built data producer, an unsupervised machine learning engine, and a live-updating web dashboard.
🛠️ Tech Stack

- **Languages:** Python 3.11, Bash

- **ML Framework:** Scikit-Learn (Isolation Forest)
- **Backend:** Flask (RESTful API)
- **Frontend:** HTML5, CSS3, Chart.js
- **DevOps:** Docker, Docker Compose

☎️ Architecture