

AHMAD SHAFIQ

AI/ML Engineer · Houston, TX

ferdawsahmad@icloud.com | linkedin.com/in/ferdaws3440 | github.com/Ahmad986Ferdaws | ferdaws.dev | 281-902-9948

EDUCATION

B.S. Computer Science, North American University

Stafford, TX

Expected December 2026 · GPA: 3.6 · Minor: Computer Networking

NVIDIA Certified Professional: Generative AI LLMs (NCP-GENL), Accelerated Data Science (NCP-ADS)

EXPERIENCE

AI/ML Engineer Intern — VC5 Partners

February 2026 – Present

Houston, TX

- Built an **AI system that automatically reads and reviews complex legal documents** for a law firm client, replacing hours of manual paralegal work — using a 3-agent pipeline (extraction → review → assembly) built on **Claude AI, FastAPI, Azure Document Intelligence, and pgvector**.
- Built an **automation system that handles recruiter onboarding end-to-end** — from detecting new placements to processing documents and approvals — **replacing ~90% of manual back-office work**, integrating **Bullhorn, Magnit, Twilio, and PostgreSQL** via n8n.
- Connected the company's **accounting software (QuickBooks) to AI agents** so records update automatically instead of by hand, **eliminating hours of manual data entry each week** — built with a **Flask middleware** and **Cloudflare tunnel** driving Claude-powered read/write access.

Automation Engineer (Student) — North American University

May 2023 – Present

Stafford, TX

- Built a **system that automatically sorts and routes student applications**, cutting the work admissions staff did by hand — **reduced processing time 32%** and **errors 41%** across 3 admissions cycles, using **Salesforce** (Flows, validation rules, REST integrations).
- Built **8 automated workflows** that screen applications and connect email and document systems, **saving ~40 staff-hours per cycle** across **700+ applications** — built with **n8n**.

PROJECTS

Foodvisor AI — Multi-Agent Nutrition Platform | *FastAPI, Claude API, pgvector, Redis/Celery, Next.js*

- Built an **app that gives personalized meal advice and checks food photos for safety** (allergies, dietary limits) — powered by a 3-agent pipeline with **photo analysis via Claude vision** and **RAG-powered nutrition retrieval** on **FastAPI** and **pgvector**.
- Built the **full system end-to-end** — secure login, database, and a responsive web app that shows the AI's reasoning in real time — using **Celery/Redis, SQLAlchemy, and Next.js**.

Agentic Orchestration Simulator — Human-in-the-Loop Multi-Agent System | *TypeScript, React, Node.js*

- Built a **system that coordinates multiple AI agents to plan and check work together**, flagging risky steps for a human to approve before continuing — 7 specialized agents with **confidence scoring** and **risk flagging** across an orchestration graph (TypeScript, React).
- Added a **memory feature that lets the AI learn from human corrections**, so it avoids repeating mistakes on future runs — a persistent store with 5 learning types and human-in-the-loop approval gates.

MOVE — Motor Imagery BCI Pipeline | *Python, MNE-Python, TensorFlow/Keras, EEGNet, FastAPI*

- Built a **brain-computer interface that decodes movement intentions from brain signals** (EEG), trained on **86 subjects and 7,000+ trials** — full pipeline with signal preprocessing and feature extraction (Python, MNE-Python).
- Reached **42–45% accuracy across 4 movement classes** (vs 25% by chance) and built a **real-time prediction API** that abstains when unsure, using **EEGNet, Riemannian ML, and FastAPI**.

AI Agent Security Sandbox — Adversarial Evaluation Framework | *Python, Playwright, NVIDIA NemoTron*

- Built a **testing tool that checks whether AI agents can be tricked into unsafe actions**, running them against **40+ attack patterns** and producing risk scores and fix recommendations — built with **Python, Playwright, and NVIDIA NemoTron**.

SKILLS

Languages: Python, TypeScript, SQL, Java

AI/ML: Claude API, OpenAI API, LangGraph, RAG, TensorFlow/Keras, EEGNet, MNE-Python, pgvector

Backend: FastAPI, Flask, Node.js, Celery, REST APIs, PostgreSQL, Redis, SQLAlchemy

Frontend: Next.js, React

Infra & Tools: Docker, Git, CI/CD, n8n, Azure, Supabase, Salesforce, Linux

AWARDS

- **Datathon Winner** — Rice University (1st place)
- **Hackathon Finalist** — NVIDIA GTC Hackathon — built AI Agent Security Sandbox (Python, Playwright, NVIDIA NemoTron)