

# ERIC HOLT

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[LinkedIn](#) • [Portfolio](#) • [GitHub](#)

## PROFESSIONAL SUMMARY

AI developer specializing in LLM agent orchestration and production Python services, with recent work spanning LangGraph pipelines, Groq inference integration, RAG, and full-stack React/FastAPI deployments. Seven years in technical diagnostics adds a systems-thinking discipline and reliability focus that complements production AI engineering work.

## TECHNICAL SKILLS

**Programming:** Python (Certified), JavaScript, HTML/CSS, C#

**AI/ML Frameworks:** LangGraph, PyTorch, TensorFlow, Transformers, Scikit-Learn

**Agent & LLM:** Groq inference, RAG pipelines, LLM fine-tuning (LoRA), agentic orchestration, reinforcement learning, model evaluation

**Web Development:** FastAPI, React, Vite, Tailwind CSS, Flask, REST APIs

**Tools:** Git, Docker, Docker Compose, Render, VS Code, Jupyter, PlatformIO

## TECHNICAL PROJECTS

**ReconAgent – Autonomous Web Research Agent** | Python, LangGraph, FastAPI, Groq, Tavily, React, Docker

- Built a LangGraph agentic pipeline with four sequential nodes — planner, search, reflection, and synthesis — where the reflection node evaluates result adequacy and conditionally loops back to search with refined queries before proceeding to report generation.
- Deployed to Hugging Face Spaces as a single Dockerized service — multi-stage build bundles the React/Vite frontend with the FastAPI backend, with SQLite persistence for research history and a GitHub Actions workflow for continuous deployment.

**AgentFlow – HR Document Intelligence** | Python, LangGraph, FastAPI, Groq, React, Docker

- Built a LangGraph multi-step agent pipeline that classifies uploaded HR documents and routes each to a specialized LLM analysis node returning structured JSON with skills, risk flags, and hiring recommendations — with vision model support for image/handwritten documents.
- Deployed as a single Dockerized service on Render — multi-stage build bundles the React/Vite frontend with the FastAPI backend, with SQLite session persistence and an optional n8n webhook integration for downstream automation.

**AI Tutor – TinyLlama + LoRA** | Python, LangGraph, FastAPI, Docker, Azure

- Built a lightweight AI tutoring backend using a quantized TinyLlama model with a custom LoRA fine-tuned for beginner-level programming instruction and a LangGraph orchestration pipeline supporting base vs. fine-tuned model comparison.
- Deployed as a Dockerized FastAPI service on Azure Container Apps with autoscaling-to-zero and CPU-optimized inference via llama.cpp.

**Transport LLM-WebGPU** | React, Python, RAG, Local Corpus

- Developed a fully client-side LLM accelerated with WebGPU for on-device inference with zero server dependency, including vector search, embeddings, and prompt-augmentation for a custom RAG pipeline.
- Built a React interface controlling weight loading, retrieval visualization, and model inference.

**Reinforcement Learning Warehouse Bot** | Python, PyTorch, Gymnasium

- Designed and trained a reinforcement learning agent for warehouse navigation and pick-and-place optimization using custom reward shaping and DQN/PPO training loops.
- Improved simulated route efficiency and reduced idle movement through iterative policy tuning.

## EXPERIENCE

**Software Engineer / Full-Stack Developer – Get Set Wedding**

*Startup / Contract*

Dec 2025–Present

- Shipping a production web app including auth/onboarding, dashboards, and planning tools with Supabase persistence and hardened login/refresh flows.
- Developing admin features, automations, and subscription-ready infrastructure.

#### **Technical Diagnostics & Systems Specialist – Emergency Vehicle Platforms**

2017–2024

*City of Coppell • City of Grapevine • Siddons-Martin Emergency Group*

## **EDUCATION**

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### **DeVry University – B.S. in Computer Information Systems**

Expected 2028

*A.S. in progress, expected 2026 · Specialization: Programming, Machine Learning & Design Technology*

## **CERTIFICATIONS & ACCOMPLISHMENTS**

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PCEP – Certified Python Programmer (2025) • Dean's List, DeVry University (2025) • Web Scraping with Python • Vibe Coding with AI • National Society of Leadership and Success – Inducted Member