ERIC HOLT

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LinkedIn: Eric-Holt-Computer-Engineering-Technology

Portfolio: https://ericholt.dev

PROFESSIONAL SUMMARY

Driven programmer specializing in software development and data-centric solutions, with a strong focus on artificial intelligence and machine learning. Proficient in Python and experienced in building data-driven applications, automation systems, and analytical models. Known for rapid learning, problem-solving, and a dedication to creating scalable, intelligent software that bridges data and innovation.

TECHNICAL SKILLS

Programming: Python (PCEP Certified), C++, JavaScript, HTML/CSS

Tools/Frameworks: Flask, TensorFlow, TensorFlow.js, PyTorch, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, Chart.js, Git, VS Code, Jupyter, Render

Systems: CAN bus diagnostics, PLC basics, IoT/Embedded Systems (ESP32, PlatformIO)

Other: Microsoft Office, CAD concepts

EDUCATION

DeVry University – *Bachelor of Science in Computer* Information *Systems* (Expected 2028)
Specialization: Programming, Machine Learning & Design Technology
Relevant Coursework: Technology & Information Systems, Applied Systems, Data Structures & Programming

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CERTIFICATIONS & ACCOMPLISHMENTS

- PCEP – Certified Entry-Level Python Programmer, Python Institute, 2025
- Dean's List, DeVry University, 2025
- Web Scraping with Python, DeVry University, 2025
- Vibe Coding with AI, DeVry University, 2025

TECHNICAL PROJECTS

Transport LLM (Python, RAG, Local Corpus, Vector Search) - *Live Demo* | *GitHub*

- Designed and implemented a retrieval-augmented generation (RAG) system trained on transportation data using local embeddings and in-browser vector search.
- Building modular components for data ingestion, retrieval, and prompt augmentation to enable context-aware conversational AI performance.

Reinforced Learning Warehouse Bot (Python, PyTorch, Gymnasium) **-** *Live Demo* | *GitHub*

- Developed and trained a reinforcement learning agent to optimize warehouse navigation and pick-and-place operations in a simulated environment.
- Designed custom reward functions and implemented DQN/PPO algorithms using Gymnasium for efficient route planning and reduced idle time.

Flask Chatbot Web App (Python, Flask, Render Deployment) **-** *Live Demo* | *GitHub*

- Built and deployed a Flask chatbot web app with GitHub integration and cloud hosting live, 24/7 on Render.
- Troubleshot deployment errors and optimized routing, showcasing skills in web dev and cloud deployment.

Weather Web App (Python, Flask, Bootstrap, Chart.js) **-** *Live Demo* | *GitHub*

- Developed a Flask web app delivering real-time weather data and multi-day forecasts with user-friendly visualizations live, 24/7 on Render.
- Integrated Bootstrap for responsive design, Chart.js for interactive charts, and implemented search history with error handling.

Image Classifier Web App (JavaScript, TensorFlow.js, HTML/CSS) - *Live Demo* | *GitHub*

- Developed a browser-based image classifier using TensorFlow.js, enabling real-time predictions directly in the client without server-side processing.
- Built an interactive web interface with HTML/CSS and deployed it on Render for live, 24/7 availability.

EXPERIENCE

City of Coppell – Emergency Vehicle Technician (Feb 2024 – Dec 2024)

City of Grapevine – Master Mechanic / Fire Apparatus (Jul 2022 – Feb 2024)

Siddons-Martin Emergency Group – Field Service Technician (Jan 2017 – May 2022)