Neil Artus
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Skills

Languages: Python, Javascript,
Frameworks: React, Tailwind, Flask, FastAPI, LangChain, Tensorflow, Pandas, PyTorch
Cloud Tools: Azure (App Service, CosmosDB, OpenAI, EntraID), GCP (VertexAI, Gemini SDK, Firebase), Vercel, Hetzner (Linux VPS), Pinecone

EXPERIENCE

JG Summit Holdings Inc. - GenAI Research Intern **2025**

- Developed and deployed a full-stack generative AI web application with seamless data pipelines for internal use
- Collaborated with an Agile team to iterate and produce a working proof of concept in a fast-paced environment
- Conducted rigorous analysis of model accuracy to ensure alignment with business requirements.
- Engineered a modular application architecture to improve maintainability and simplify the team turnover process.
- Reduced future development time by writing comprehensive documentation and conducting knowledge transfer sessions.

Completed Projects

Albawani HR Request Form (Freelance Project)

- Simplified internal HR operations by developing an internal tool to automate employee attendance tracking.
- Integrated the system with existing IT infrastructure on Hetzner bare-metal servers using Python.
- Implemented authentication and role-based access control using Microsoft Entra ID to protect sensitive employee data.

Raspberry Pi Embedded AI (Freelance Project)

- Presented at LPU - Cavite Innovex 2025 Colloquium and awarded COESCA research of the year
- Coordinated with a non-technical team to train a Convolutional Neural Network based on MobileNet architecture using Tensorflow for osteoarthritis detection.
- Wrote a Python script to run inference on a Raspberry Pi 5 connected to a thermal camera.

MediSeen (*Capstone Project*)

- Led a team using PyTorch to develop an AI-powered progressive web application providing clinical decision support
- Engineered a microservice architecture using industry-standard cloud tools on Azure and GCP, which enabled an average response latency of 98 ms for database queries, and average response latency of 2000 ms for AI tasks
- Developed a responsive viewport for mobile using React and Tailwind; increased system usability score by 15%.
- Implemented security features by using FastAPI and routing traffic to a Cloudflare DNS Tunnel.

Neural Networks from Scratch

- Built fundamental machine learning algorithms from scratch using JAX; matched the accuracy of existing Python AI frameworks
- Implemented functional programming techniques to enable jit-compiled performance benefits to certain computations, while wrapping the core logic in an OOP wrapper for better developer experience

Formal Language Compiler

- Built a web compiler using Flask and Javascript for visualizing deterministic formal languages.
- Wrote the core algorithm in Python to accurately simulate Deterministic Finite Automata, processing input strings against complex state transition tables.
- Ensured code coverage by using pytest to ensure reproducibility and that the compiler works as formally defined

EDUCATION - De La Salle University - Dasmariñas

Bachelor of Science in Computer Science with Specialization in Intelligent Systems

- **Consistent Dean's Lister** (2022-2026)
- **Relevant Coursework:** Object-Oriented Programming, Data Structures and Algorithms, Machine Learning, Databases, Web Development
- **Extra-Curriculars:** Secretary and Codessey Program Head - Computer Science Program Council