Neil Artus

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Experience

MediSeen   **2024**
Full Stack Developer
- Led a team using PyTorch to develop an AI-powered healthcare web application; provided prescription support with 92% accuracy
- Engineered robust backend systems using Flask with Nginx; decreased response latency by 50% and maintained 97% server uptime
- Developed responsive front-end features for mobile devices; increased system usability by 15%
- Updated security features using Flask; prevented DDoS attacks

Sikaptala (Hackathon)   **2025**
UI-UX
- Coordinated with a 5-member team to create a wireframe prototype of a Learning Management System

Raspberry Pi   **2025**
Backend Developer
- Coordinated with a non-technical team to train a Convolutional Neural Network using Tensorflow for osteoarthritis detection
- Wrote a Python script to deploy the model on a Raspberry Pi 5

Skills

Languages: Python, Javascript, SQL
Frameworks: Flask, Pandas, Numpy, Tensorflow, Torch, OpenCV, Scikit-Learn, Matplotlib
Dev Tools: Bash CLI, Git, Docker, Anaconda, NGINX, Tmux, Linux
Soft Skills: problem solving, adaptability, collaboration, effective communication

Completed Projects

Neural Networks from Scratch
- Built fundamental machine learning algorithms from scratch using NumPy; matched the accuracy of existing Python AI frameworks
- Trained the neural networks from scratch using real-world datasets; established meaningful correlations that provided actionable data

DFA Compiler
- Wrote a compiler for simulating and validating deterministic finite automation and packaged the compiler as a web app using Flask

Image Processing Scripts
- Wrote image processing scripts using Python and OpenCV; created and augmented a dataset of 1.3 million images for training neural networks

COVID-19 EDA
- Cleaned and visualized 4 million entries of COVID-19 cases in the Philippines using Jupyter; provided insightful epidemiological data

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:** Machine Learning, Neural Networks, Data Science, Python, Databases, API Development, Human-Computer Interaction
- **Extra-Curriculars:** Junior Officer for Business Affairs - Computer Science Program Council (2024-2025)