**Neil Artus**

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**GitHub:** https://github.com/NeilR2s

**Summary**

Pragmatic Full-Stack Developer with expertise in AI-powered web applications, backend systems, and data science. Skilled in Python, JavaScript, Flask, FastAPI, and machine learning. Passionate about problem-solving, collaboration, and high-performance software solutions.

**Technical Skills**

* **Languages**: Python, JavaScript, HTML, CSS
* **Frameworks**: Django, Flask, FastAPI, Pandas, Numpy, Tensorflow, Torch, OpenCV, Scikit-Learn, Matplotlib, MySQL, SQLite
* **Developer Tools**: Bash CLI, Git, Docker, Anaconda, NGINX, Tmux, Figma, Linux

**Experience**

**MediSeen** De La Salle University -Dasmariñas Cavite

Full Stack Developer October 2024 – February 2025

* Led a 3-member agile team to develop an AI-powered multimodal machine learning healthcare web application, increasing server uptime by 50%
* Engineered robust AI-powered backend systems using Flask, Torch, and Numpy
* Implemented responsive front-end features for mobile devices using HTML, CSS, and JavaScript
* Updated security features to prevent DDoS attacks and malicious file uploads
* Created a standard server-side architecture using REST API
* Deployed scalable back-end systems with Flask and Nginx on a Linux VPS, ensuring 97% uptime, robust performance, and load distribution.

**Coding Challenges and Hackathons** De La Salle University -Dasmariñas Cavite

Back End Developer October 2024 – Present

* Coordinated with a 5-member scrum team to develop an AI-powered asynchronous web application
* Developed robust AI-powered backend systems using FastAPI, SQLite, and TensorFlow while adhering to best practices, which ensured code readability
* Enhanced application performance by integrating advanced error handling, object-oriented design, and comprehensive unit testing.

**Projects**

**Dataset Generator.** Built a Python Script that automated the process of building a synthetic csv dataset using the Google Developer API. Over 30,000 entries have been generated by the script so far, which I have personally used in my MediSeen project for Natural Language Processing.

**COVID-19 Exploratory Data Analysis.** Cleaned and visualized 4 million entries of COVID-19 cases in the Philippines to provide actionable data to stakeholders.

**Neural Networks from Scratch.** Built and trained a Feed-Forward Neural Network and Linear Regression algorithm from scratch using Python and Numpy. The accuracy of the models has reached 93% relative to popular frameworks like TensorFlow and Scikit-Learn when trained on the real-world datasets.

**Computer Vision and Image Processing.** Wrote Python notebook scripts on Jupyter notebooks to create image processing pipelines that reduced noise using kernels and created TensorFlow AI models for image classification tasks.

**Education**

**De La Salle University - Dasmariñas** De La Salle University -Dasmariñas Cavite

B.S. Computer Science with Specialization in Intelligent Systems Expected 2026

* Dean’s Lister (2022-2025)
* Relevant Coursework: : Machine Learning, Neural Networks, Data Science, Python Backend Development, Database Management, REST API Development, Human-Computer Interaction

**Leadership and Extra-Curriculars**

**Junior Officer for Business Affairs** DLSU-D Computer Science Program Council

De La Salle University, Dasmariñas, Cavite August 2024 - Present

* Coordinated strategic partnerships and streamlined communications, resulting in improved collaboration and event execution.
* Produced detailed documentation for internal processes, ensuring transparency and effective knowledge sharing.

**Skills and Interests**

* **Skills**: Effective communication, collaboration, proactive problem solving, adaptability
* **Interests:** machine learning innovations, neural network research, web application development, scalable systems, scripting and automation