Joshua Ryan Wong

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Github: github.com/NoctemApple | Linkedin: linkedin.com/in/joshua-wongn/ |
Personal website: https://noctemapple.github.io/
Open to full-time roles | Target Roles: Data Scientist | Data Engineer | Software Developer

PROFESSIONAL SUMMARY

Fresh **Computer Science graduate (Magna Cum Laude)** with a strong academic background in **machine learning, time series forecasting, NLP, and intelligent systems.** Completed hands-on technical projects in predictive modeling, deep learning, and generative AI using **Python, TensorFlow, Transformers, and Streamlit**. Skilled in developing end-to-end pipelines, dashboards, and user-facing applications. Seeking an **entry-level opportunity as a Data Scientist, Data Engineer, or Software Developer** to apply technical skills and deliver real-world impact.

EDUCATION

De La Salle University - Dasmariñas

BS Computer Science - Intelligent Systems, **Magna Cum Laude**
GPA 3.58 | 2020 - 2024 | Dean's list
Relevant coursework: Machine Learning, Data structures, NLP, Algorithms

EXPERIENCE

TaskUs | Intern   July - Sept 2023

- Tracked IT assets with Excel-based logs (data accuracy, organization).
- Standardized documentation processes, improving team coordination.
- Coordinated with IT staff to streamline asset workflows.
- Developed a disciplined approach to documentation, task tracking, and cross-team communication.

SKILLS

- **Languages:** Python | Java | SQL | HTML | CSS **|** Javascript
- **Libraries & Frameworks:** TensorFlow | Keras | Scikit-learn | Streamlit | Django | Bootstrap | Pandas | NumPy | Matplotlib | Seaborn | Prophet | SARIMA
- **Tools & Platforms:** Git | Github | Jupyter Notebook | VS Code | AWS| SQLite | RapidMiner | Kaggle API | CI/CD
- **Concepts:** Machine Learning | Time Series Analysis | NLP | CNNs | REST API | Authentication | Data Structures & Algorithms | Data Wrangling | EDA | Databases

CERTIFICATIONS

- NDG Linux Essentials.
- CS50 Introduction to Programming with Python.
- CS50's Web Programming with Python and JavaScript (In progress)

TECHNICAL PROJECTS

Pharmalytics – Sales Prediction System (Final Thesis Project) | [GitHub Repo](#)
Built a **time series forecasting system** using Meta's Prophet model to help a local pharmacy, Firstmed, improve inventory decision-making.

- **Achieved MAE scores ranging from 0.33 to 16.44** across top-performing products.
- Developed UI using Streamlit for CSV upload, analytics, and 12-week sales prediction.
- Digitized handwritten sales logs and enabled real-time forecasting for restocking.
- Received **90%+ satisfaction rating from 50+ respondents** across user groups: pharmacy staff, students, and developers.

Task Dependency Manager – CS50W Capstone Project (Harvard / edX) | [GitHub Repo](#)
A responsive, login-gated web app to create tasks with AND/OR/optional dependencies and visualize prerequisites in real time.

- **Developed a full-stack Django web app** with task dependency visualization (AND/OR/optional).
- Implemented **AJAX-based live updates** with CSRF protection and user authentication.
- Designed a **mobile-first UI with Bootstrap** and integrated CI/CD workflows.

Integrated Dashboard | [GitHub Repo](#)
Developed an **end-to-end data science dashboard using Streamlit**, integrating data engineering workflows and machine learning model training entirely in-browser.

- Enabled dataset loading via **Kaggle API/CSV** with automatic parsing and memory profiling.
- Supported **on-demand Random Forest** training, preprocessing (encoding/splitting), and model export.

Philippine Flower Classifier – Computer Vision App | [GitHub Repo](#)
Built a custom image classification model to identify local flowers, including Sampaguita, Gumamela, Tulip, and Rose, using transfer learning and computer vision.

- Developed a **CNN-based classifier for local flowers** (Sampaguita, Gumamela, Tulip, Rose).
- Achieved **79.37% accuracy** after 12 epochs with augmentation.
- Created a **Sampaguita dataset** via Creative Commons + augmentation to address lack of a dedicated dataset for the Sampaguita flower online.
- Built a Tkinter GUI for real-time flower classification, but recently updated with Streamlit.

Bullet Point Summarizer | [GitHub Repo](#)
Designed a text summarization web app using Streamlit that supports **extractive, abstractive, and hybrid** NLP modes.

- Applied **Hugging Face Transformers (BART)** for generative AI abstractive summaries.
- Implemented three summarization methods: **Abstractive, Extractive, Hybrid.**
- Built a **comparison interface** with tooltips to explain different summarization strategies.