John Matthew Gan

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⚙ Skills

Frameworks and Technologies NodeJS, jQuery, Spring, MongoDB, Bootstrap, FastAPI, and Flask
Programming Languages Python, JavaScript, Java, C, SQL, Luau, and Google Apps Script
Markup Languages HTML, CSS, Markdown, LaTeX, MediaWiki
Software Tools VSCode, IntelliJ IDEA, Android Studio, Roblox Studio, MySQL, Git, Jupyter, Colab, Notion, Figma

💼 Work Experience

DLSU AdRIC - TE3D House, DLSU Manila   September – December 2023
Web Developer   *Manila, Metro Manila*

> Spearheaded the deployment of a low-level automatic speech recognition system onto a Gunicorn server with REST API endpoints. Helped identify and resolve chatbot dialogue tree issues on DialogFlow CX on Google Cloud.

The LaSallian, DLSU Manila   January – April 2023
Frontend Web Developer   *Manila, Metro Manila*

> Helped develop a static website for my university's student publication featuring the De La Salle Brothers in the Philippines.

⚗ Projects

💼 FilBis Health Chatbot App   September – December 2023
HTML, CSS, JS, Kaldi, Python, FastAPI, Web Audio, Linux

> Deployed a Kaldi-based ASR system onto a Gunicorn server that handles REST API requests from a web-based multilingual health assessment chatbot.

💼 CentralandPH E-Commerce Prototype   May – August 2023
HTML, CSS, JS, React Native, Web Design, UX

> Contributed to the UI design and layout of a React Native and Next.js-based e-commerce website prototype.

💼 The LaSallian De La Salle Brothers Special Website   March – April 2023
HTML, CSS, PHP, JS, Web Design, UX

> Developed the timeline and image carousel views for a static website featuring the mission and history of the De La Salle Brothers in the Philippines.

💼 Affect regression of tweets from the Philippines using emoji-based labels   September 2022 – August 2023
Sentiment Analysis, Automated Annotation, Emoji Lexicons, Neural Networks, Twitter, Python, Pandas, Tensorflow, PyTorch

> Undergraduate thesis on using an emoji lexicon mapped to eight emotions and two sentiments to determine their magnitude on texts from tweets from the Philippines. Developed Python scripts for training language models using CNN and BERT and performing data collection and analysis.

💼 Histohance Image Enhancer Tool   June – July 2022
Python, Flask, Computer Vision, UX

> Developed the frontend of a Flask web app that performs histogram equalization image enhancement.

💼 DLSU ID Number Verification and Generator   May 2022
HTML, CSS, JS, Web Design, Bootstrap

> Developed a simple web app with Bootstrap and vanilla JavaScript to verify DLSU ID numbers and generate all possible ID numbers.

💼 Tetris Android Game   July – Sept 2021
Java, Game Design, UX

> Worked on the user interface and frontend of a Tetris mobile game for the Android platform.

💼 Cobalt Valley Research Facility Roleplay Game   May 2015 – October 2018, April 2020 – October 2022
Luau, Python, Game Design, Community Management, Agile, UX

> Worked on the concept, game design, and scripting of a Roblox game with a remote team using informal agile project management.

🎓 Education

De La Salle University – Manila   2019 – 2024
Bachelor of Science in Computer Science with Specialization in Software Technology   *Manila, Metro Manila*