John Matthew Gan

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Skills

Languages	Python, JavaScript, Java, SQL, HTML, CSS, AppScript, Luau
Technologies	Node.js, Express, React, Next.js, Bootstrap, jQuery, Pandas, Tensorflow, PyTorch, Jupyter
Tools	Amazon Lex, Amazon Lambda, Amazon Bedrock, Git

Work Experience

Pointwest Digital Corporation　　　　　　　　　　　　　　　　　　　　　　June 2024 – present
Python Developer　　　　　　　　　　　　　　　　　　　　　　　　　　　*Quezon City, Metro Manila*

- Annotated and evaluated Python code to improve the accuracy of a LLM-based coding assistant
- Developed automated data analysis and reporting tools, streamlining progress tracking across multiple web endpoints
- Built a Lex-based property search chatbot integrated with data retrieval and Lambda functions, improving lead generation by handling open-ended property queries
- Designed and implemented LLM prompt logic and backend for a recruiter-facing app that parses resumes and matches candidates to job profiles, automating screening through pre-defined criteria and format-based assessment

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

- Created a low-level automatic speech recognition system with a Gunicorn web server with REST API endpoints.
- Worked with other interns to help identify and resolve chatbot dialogue tree issues on DialogFlow CX on Google Cloud.

Projects

LRT/MRT Train Car Calculator　　　　　　　　　　　　　　　November 2024 – July 2025
JavaScript, Bootstrap, SVG, LocalStorage, Google Analytics

- Built a commuter-facing web app that recommends the most optimal car to board to arrive nearest to the station exit based on station exits and line configurations, reducing exit travel time.
- Uses modular client-side logic with form validation, persistent settings via LocalStorage, and dynamic SVG rendering.

FilBis Health Chatbot App　　　　　　　　　　　　　　　September 2023 – December 2023
JavaScript, Kaldi, Python, FastAPI, Web Audio, Linux

- Deployed and maintained a Gunicorn server with a Kaldi-based ASR system for a multilingual health assessment chatbot. Improved server performance and reliability during testing, resolving deployment issues and ensuring stable API integration.

The LaSallian De La Salle Brothers Special Website　　　　　　　　　March 2023 – April 2023
HTML, CSS, PHP, JavaScript, Bootstrap, Web Design, Figma, UX

- Developed the theming, timeline and image carousel views, and mobile layout optimizations for a static website featuring the mission and history of De La Salle Philippines.

Affect regression of tweets from the Philippines using emoji-based labels　　September 2022 – August 2023
Python, Pandas, TensorFlow, PyTorch, CNN, BERT, NLP

- Developed CNN and BERT deep learning models to predict sentiment and emotion intensity in tweets using a large dataset automatically annotated with an emoji lexicon that assigns continuous scores across eight emotions and two sentiments.

Cobalt Valley Research Facility Roleplay Game　　　　　　　　　　May 2015 – October 2022
Roblox, Game Design, Luau, Python, UX, Agile, Community Engagement

- Helped design and implement core gameplay systems for an open-world sci-fi roleplay game on the Roblox platform, focusing on player interaction and immersion.
- Collaborated remotely using Agile practices to deliver features and updates. Established and moderated an active Discord community, incorporating player feedback into iterative game design improvements.

Education

De La Salle University - Manila　　　　　　　　　　　　　　　　　　　　　2019 – 2023
Bachelor of Science in Computer Science with Specialization in Software Technology　　*Manila, Metro Manila*