

# John Matthew Gan

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## Skills

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

## Work Experience

### Pointwest Digital Corporation

Python Developer

June 2024 – present  
Quezon City, Metro Manila

- Annotated and evaluated Python code to improve the accuracy of a LLM-based coding assistant
- Made automated data analysis and tracking tools in Google Workspace to monitor task quotas and accuracy
- 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

Backend Developer

September 2023 – December 2023  
Manila, Metro Manila

- Created a low-level automatic speech recognition system with a Gunicorn web server with REST API endpoints.
- Resolved and identified chatbot dialog tree issues on DialogFlow CX on Google Cloud.

## Projects

### LRT/MRT Train Car Calculator

JavaScript, Bootstrap, SVG, LocalStorage, Google Analytics

November 2024 – July 2025

- 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

JavaScript, Kaldi, Python, FastAPI, Web Audio, Linux

September 2023 – December 2023

- 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

HTML, CSS, PHP, JavaScript, Bootstrap, Web Design, Figma, UX

March 2023 – April 2023

- 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

Python, Pandas, TensorFlow, PyTorch, CNN, BERT, NLP

September 2022 – August 2023

- 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

Roblox, Game Design, Luau, Python, UX, Agile, Community Engagement

May 2015 – October 2022

- 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

Bachelor of Science in Computer Science with Specialization in Software Technology

2019 – 2023  
Manila, Metro Manila