

# John Matthew Gan

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## Skills

**Languages** Python, JavaScript, SQL, HTML, CSS, AppScript, Luau

**Technologies** Node.js, Express, Next.js, Bootstrap, jQuery, Pandas, Tensorflow, PyTorch, Jupyter, Apache Spark

**Tools** Amazon Lex, Amazon Lambda, Amazon Bedrock, Databricks, Git

## Work Experience

### Pointwest Digital Corporation

June 2024 – present

*Python Developer*

*Quezon City, Metro Manila*

- Developed automated data analysis and tracking tools using Google Sheets and Google Apps Script to monitor task quotas and performance metrics for a code annotation project.
- 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 predefined criteria and format-based assessment
- Worked on a data lakehouse project by identifying and resolving data quality issues, mapping table schemas, and designing Medallion Architecture transformations to organize the data for business analytics and reliable reporting.

### 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 and resolved and identified 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

- Created 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

- Trained 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

- Designed and implemented core gameplay systems for an immersive open-world sci-fi roleplay game on Roblox in a remote Agile team, delivering features based on community feedback and gameplay balancing.

## Education

### De La Salle University - Manila

2019 – 2023

Bachelor of Science in Computer Science with Specialization in Software Technology

*Manila, Metro Manila*