

CABRERA, JEN JADE B.

Laguna, Philippines · (+63) 929-255-7199 · jjcabreraaaa@gmail.com · hyoar.github.io

EDUCATION

San Pablo Colleges	Hermanos Belen Street, San Pablo City
Bachelor of Science in Computer Science	September 2022 - Present

INTERESTS AND TECHNOLOGIES

Interests:	Data Science, Web Development, App Development, DevOps, Creative Media, Linguistics
Technologies:	Python, JavaScript, TypeScript, R, Java, PHP, Dart, CSharp, Docker, Arduino, Bash, HTML, CSS, React, Next.js, CodeIgniter, Laravel, Bootstrap, TailwindCSS, DaisyUI, ShadcnUI, NextUI, Flutter, JavaFX, PostgreSQL, MySQL, Supabase, PocketBase, Flask, Flask-RESTX, OpenAPI, Swagger, Streamlit, Gplot2, Pandas, NumPy, Seaborn, Plotly, Scikit-learn, Git, Jupyter, Linux, Ubuntu, Zorin, Tmux, Neovim, VSCodium, Photoshop, InDesign, Premiere

WORK EXPERIENCE

Machine Learning Engineer & Backend Developer	September - December 2024
<ul style="list-style-type: none">Collaborated with a masteral student to develop a document evaluation system using Natural Language Processing (NLP) to assess legal documents for project proposals.Designed a pipeline to tokenize and embed document text, extract the most relevant sentences for each question using cosine similarity, and validate responses through Natural Language Inference (NLI).Built the backend infrastructure using Flask, Flask-RESTX, and Docker, deployed via Gunicorn, and documented APIs with OpenAPI/Swagger.Conducted exploratory data analysis and prototyping using Jupyter Notebook to refine the NLP pipeline.	
Flutter & React Developer	June - December 2024
<ul style="list-style-type: none">Developed a kiosk application using Flutter/Dart featuring a virtual tour functionality integrated via a web view.Built the accompanying web application for the virtual tour using React and TypeScript, incorporating Pannellum for 360° panorama views, and designed the UI with ShadcnUI and TailwindCSS.Utilized TanStack Query for efficient state management and optimized API interaction for seamless user experiences.Delivered a fully functional system tailored to enhance organizational engagement through interactive features.	
Java Developer	May - November 2024
<ul style="list-style-type: none">Developed an attendance system using JavaFX for the frontend, ActiveJDBC for database interactions, and Arduino for hardware integration.Designed an intuitive user interface for efficient attendance tracking and seamless communication with hardware components.Delivered a complete solution with real-time attendance recording and reporting features.	
Full Stack Developer	November 2023 - May 2024
<ul style="list-style-type: none">Developed a virtual storefront application for a Japan-based jewelry business using Next.js, TailwindCSS, ShadcnUI, Supabase, PostgreSQL, and TanStack Query.Implemented role-based access and Supabase Row Level Security to ensure secure data access for different user roles.Integrated Maya Payment for seamless online transactions.The project was ultimately discontinued due to unforeseen circumstances.	

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PROMINENT PROJECTS

Analyze: An AI and NLP-Enhanced Platform for Sentiment and Insight Extraction	2024
<ul style="list-style-type: none">• Project repository: https://github.com/hyoaru/analyze• Designed and implemented a supervised machine learning model using Pandas, NumPy, Scikit-Learn, and Jupyter Notebook with a Multinomial Naive Bayes classifier. The model predicts the sentiment and emotion of sentences using an emotion dataset from Kaggle.• Developed an API for the model using Flask, Flask-RESTX, Gunicorn, Docker, and documented it using OpenAPI/Swagger.• Built the core backend API using PHP Laravel and OpenAPI/Swagger for robust data handling and scalability.• Developed a web client using TypeScript, React, TanStack Router, TanStack Query, TailwindCSS, and ShadcnUI for a dynamic, responsive user interface.• Designed the platform to enable executives to post questions and allow their subjects to respond. The platform predicts the sentiment and emotion of the responses, extracts key concepts, and generates keywords and keyphrases.• Incorporated a summarization feature using a Large Language Model (LLM) from OpenAI to generate summaries of the entire thread.	
Beyond Decor: A Portfolio and Inquiry Website System	2023
<ul style="list-style-type: none">• Project repository: https://github.com/hyoaru/beyond-decor• Developed a portfolio and inquiry website system for Beyond Decor, a party and entertainment service, using ReactJS, Next.js, DaisyUI, TailwindCSS, and PocketBase.• This project served as an eye-opener to the composability design principle in React and deepened my understanding of Next.js philosophies for building optimized, scalable web applications.• The website showcases Beyond Decor's services, allowing users to explore party and entertainment options, inquire about services, and get in touch with the company.	
Philippine Poverty Area Estimates Choropleth	2023
<ul style="list-style-type: none">• Project repository: https://github.com/hyoaru/philippine-poverty-area-estimates-choropleth• Developed a web application providing a visual representation of the estimated magnitude of poor families in the Philippines using a choropleth map.• The map visualizes data from the years 2006, 2009, 2012, and 2015 to give users insights into the poverty distribution across regions.• Data source: United Nations Office for the Coordination of Humanitarian Affairs (UN OHCA) and Philippine Statistics Authority (PSA).• The project was built using Python, Jupyter Notebook, NumPy, Pandas, and Streamlit.	
Breast Cancer Classification: Supervised Machine Learning	2022
<ul style="list-style-type: none">• Project repository: https://github.com/hyoaru/sparta-supervisedml-binary-classification• Completed a peer-reviewed machine learning task as part of the Smarter Philippines through Data Analytics R&D, Training and Adoption (SPARTA) program on the course Data Science and Machine Learning with Python.• Implemented binary classification using the Breast Cancer Wisconsin Diagnostic Dataset, employing machine learning techniques to predict the presence of cancer based on feature data.• This project sparked my interest in machine learning and helped me discover my passion for the field. As a first-year scholar in the SPARTA program, I had the opportunity to collaborate with peers who were already working professionals, which enriched my learning experience and broadened my perspective.	

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CERTIFICATIONS

Google Data Analytics Capstone: Complete a Case Study	July 2023 · Google
Data Analysis with R Programming	June 2023 · Google
Share Data Through the Art of Visualization	May 2023 · Google
Analyze Data to Answer Questions	April 2023 · Google
Process Data from Dirty to Clean	March 2023 · Google
Prepare Data for Exploration	January 2023 · Google
Foundations: Data, Data, Everywhere	December 2022 · Google
Ask Questions to Make Data-Driven Decisions	November 2022 · Google
Computing in Python	February 2022 · Project SPARTA PH
Computing Microspecialization Pathway	September 2022 · Project SPARTA PH
Data Science and Machine Learning Using Python	September 2022 · Project SPARTA PH
Data Visualization Microspecialization Pathway	September 2022 · Project SPARTA PH
Methods and Algorithms Microspecialization Pathway	September 2022 · Project SPARTA PH
Build Python Web Apps with Flask	August 2022 · DICT Philippines
Analyze Data with Python	July 2022 · DICT Philippines
Basic Statistics With Python	July 2022 · DICT Philippines
Experimental Design and Analysis	July 2022 · Project SPARTA PH
Programming for Beginners Using Python	July 2022 · Project SPARTA PH
Programming for Intermediate Users Using Python	July 2022 · DICT Philippines
Visualize Data with Python	July 2022 · DICT Philippines
Statistical Analysis and Modeling Using SQL and Python	May 2022 · Project SPARTA PH
Computing in Python	February 2022 · Project SPARTA PH
Data Visualization Using Tableau and Python	February 2022 · Project SPARTA PH
SQL for Business Users	February 2022 · Project SPARTA PH
Storytelling Using Data	December 2021 · Project SPARTA PH
Dashboards and Drill-Down Analytics	September 2021 · Project SPARTA PH
Data Visualization Fundamentals	September 2021 · Project SPARTA PH
Data Management Fundamentals	March 2021 · Project SPARTA PH
Essential Excel Skills for Data Preparation and Analysis	January 2021 · Project SPARTA PH
Getting Grounded on Analytics	December 2020 · Project SPARTA PH