Ericka Joy R. Formanes

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LinkedIn | GitHub | Portfolio

Technical Skills

Languages: Python, JavaScript, Java, PHP, SQL
Frameworks: React, Django, Flask, Express, Laravel
Database: MySQL, PostgreSQL
Others: Node.js, Git, Docker, XAMPP, HTML, CSS

Projects

Ang Tipo Kong Kwento | *React, Python, Flask, Rest API, PostgreSQL, Docker* | *GitHub*

- This is an ongoing project for our capstone or thesis. It is a web-based application that generates child-friendly Tagalog stories with the use of Artificial Intelligence.
- Led the backend development excluding training of AI, but including server setup, PostgreSQL database configuration, AI model integration, and the development of REST APIs to facilitate seamless communication between the frontend, server, and AI model, all within a dockerized environment.
- Contributed to basic frontend development, such as creating pages for homepage, contact page, etc.

CampusCompass | *Node.js, Typescript, HTML, CSS* | *GitHub*

- CampusCompass is an innovative campus map for Technological University of the Philippines - Manila. Its features include GPS-enabled direction routing, optimized algorithms for the shortest route, and location history tracking.
- Collected campus data and plotted it in MappedIn. Contributed to front-end development, enhancing user experience by creating intuitive navigation features that help users to easily navigate the web app.

Markdown to HTML Converter | *HTML, CSS, JavaScript, Node.js with Express* | *GitHub*

- Developed a web-based Markdown to HTML converter in collaboration with a colleague who designed and developed the frontend, delivering a seamless application for users.
- Built the backend for the entire conversion process using recursive descent parsing with context-free grammar principles. This includes defining rules, creating a tokenizer, parser, and abstract syntax tree.

Properties Settlement | *HTML, CSS, JavaScript, Python, Django* | *GitHub*

- This is a web app that enable users to settle their inheritance or property using the sealed bid method.
- Designed and implemented a dynamic frontend that adjusts to user input, generating containers based on the number of items entered. I also assisted with backend by securely connecting the frontend and backend, ensuring smooth data transmission and integration.

Education

Technological University of the Philippines — **Manila, PH**
Bachelor of Science in Computer Science — *September 2021 - present*

- **Courseworks**: Design and Analysis of Algorithms, Software Engineering, Artificial Intelligence, Object-Oriented Programming, Information Management
- Consistent academic achiever with multiple Dean's List and President's List awards.