

JB Vhert Moya

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TECHNOLOGIES AND LANGUAGES

Languages & libraries: HTML, CSS, JavaScript, TypeScript, C++, Python, React, Node.js

Frameworks: Next.js, Express.js, Tailwind CSS, Bootstrap

Databases: PostgreSQL, Firebase, MongoDB

Tools: Git, GitHub, Docker, Visual Studio Code, Vercel, Postman

EXPERIENCE

Full-Stack Web Developer Intern | Mabuhay Energy Corporation

Next.js, Tailwind, Docker, Postman, LiteStar and SQLAlchemy

Feb – May 2025

- Overhauled the platform to support a new user type, implementing role-based access control, dynamic page rendering, and a tailored first-time login experience in Next.js.
- Updated and extended database models with SQLAlchemy; created new RESTful APIs for user CRUD operations, login, and password setup; ensured quality with Postman test suites.
- Collaborated with development, sales, and marketing teams to align technical implementation with user requirements and improve onboarding through dedicated landing and signup pages.

PROJECTS

School Timetabling System

[GitHub](#)

Tailwind CSS, React, Redux, Firebase, C++

August 2024 – Present

- Collaborated with 4 team members to develop an automated school timetabling system for Batasan Hills National High School, streamlining and replacing their manual scheduling process.
- Implemented an Artificial Bee Colony (ABC) Algorithm in C++ compiled with Emscripten to efficiently generate conflict-free schedules for school sections and teachers within minutes.
- Integrated with Firebase for students, parents, and teachers to seamlessly view/download their schedule of interest.

TUP E-commerce

[GitHub](#)

Tailwind CSS, React, Node.js, Express.js, MongoDB, Axios

January - May 2024

- Cooperated with 3 people to develop a campus online store for the Technological University of the Philippines – Manila to help school's accredited clubs and organizations to advertise and sell their merchandises.
- Implemented REST API endpoints to perform CRUD operations on MongoDB for products, cart management, users, and transactions.
- Developed JWT-based API authentication for user verification, advanced search filtering to enhance product discovery, and data pagination to optimize data fetching performance.

YOLOv8 AI hand gesture detection Rock-paper-scissors game

[GitHub](#)

React, SCSS, Python, YOLOv8

September 2023 – January 2024

- Trained a YOLOv8 model on a dataset of over 10,000 images to accurately detect rock, paper, and scissors hand gestures, achieving 96% accuracy in controlled environments.
- Designed and developed a React-based web game integrating the AI model, enabling players to compete against an AI opponent enhanced with a probabilistic decision-making algorithm.

EDUCATION

Technological University of the Philippines - Manila

2021 – 2025

Bachelor of Science in Computer Science

- Cum Laude
- DOST Junior Level Science Scholar (JLSS), 2023