

Zyrus R. Alvez

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EDUCATION

University of Perpetual System Laguna,

Laguna, Philippines

Bachelor of Science in Computer Science

- **Relevant Coursework:** Data Structures and Algorithms, Database Management, Python Programming, Statistics, Web Development, Artificial Intelligence, Data Mining, Cloud Computing
- **Awards/Honors:** Python Programming Champion (CCS days, 2024), National Programming Competition Semi-finalist (CodeChum, 2024), One of the top 60 outstanding AWS individuals (nationwide), 1st and 2nd Year President's Lister

Technical Skills

Languages: Python, JavaScript, C++

Frameworks: React Native, Express, Expo

Library: CustomTkinter, Tkinter, Pygame, Socket.IO, Tailwind CSS, React, Matplotlib

Environments: Vite, Nodejs

Databases: SQLite, MongoDB

Development Tools: Git, Github, PyCharm, VS Code, Postman

PROJECTS

POS-Web-System

- Developed a **Point-of-Sale (POS) web system** using the **MERN stack** (MongoDB, Express, React, Node.js).
- Tailored for a **local business** (Wake Cup Brew) to streamline their **sales and inventory management in real-time**.
- Delivered as a **paid project**, demonstrating professional development and client collaboration.

UPSHL-AWS Learning Club Official Website

- Tasked as the **AWSLC Web Development Specialist**
- Developed a **static web application** showcasing the club's highlights, activities, and information.
- Collaborated with **designers** to transform mockups into a fully functional, visually appealing, and **responsive** website.

Hangman Game

- Developed a **unique** Hangman game with my groupmates, featuring characters based on team members, each with special abilities to assist players.
- Built using **Python**, **custom Tkinter**, and **SQLite** for a seamless gaming experience.

Voting Analyzer

- Designed a **modern GUI application** using **Custom Tkinter** with integrated **data visualization** powered by Matplotlib.

Pokemon Game Based on Data Structures

- Developed a **Pokemon-inspired game** with strict adherence to **data structure utilization** and a robust game system.
- Implemented a **balanced power system** and **character classification** to enhance gameplay strategy.
- Built using **Pygame**, showcasing proficiency in **game logic** and **data-driven design**.

School Library System

- Delivered a **paid project** for BINHS-West Campus, streamlining library operations.
- Built a **CRUD application** for **PDF file management**, enabling efficient handling of digital resources.

Experience

Web Development Specialist — AWS Learning Club UPHSL

- Took charge of developing and deploying static websites for the AWS Learning Club - UPHSL.
- Collaborate with the team's designer and implement responsive layouts, optimized performance, and ensured accessibility.
- Focused on effectively promoting the club's initiatives and events, while maintaining and updating the site to reflect its ongoing activities.

Documentation Committee — College of Computer Science

- Responsible for creating and organizing detailed records of events, projects, and initiatives.
- Ensured all documentation was clear, accurate, and professionally formatted, serving as a reliable reference