Jefferson C. Bual

- 09286199959 • *bualjefferson64@gmail.com* • *LinkedIn* • *Github*

Education

University of Cabuyao (PnC)   Cabuyao City, Laguna
Bachelor of Science in Computer Science   2019 – 2024
Dean's Lister
12th IT Olympics 2023 Quiz Bee Participant

Program / Seminar's Attended

Wadhwani Foundation   University of Cabuyao (PnC)
Core Employability Skills   Jan 17, 2024

UNITECH Educational Program Corporation   University of Perpetual Help Laguna
Computer Literacy Training Program   Aug 14, 2016

Skills

Programming Languages and Tools: Python, PHP, MySql, JavaScript, Restful API, Codeception, PHPUnit Testing, Machine Learning Techniques, PyTorch, NumPy, Keras, Tensorflow, Google Colab, Tableau, Open AI, Gemini and Git
Web Development: HTML, CSS, Bootstrap
Frameworks: Java Swing and Laravel
Productivity: Microsoft Office such as Word, Excel, PowerPoint
Additional Skills: Communication skills, Teamwork/Collaboration, Problem-Solving/Analytical Thinking, Adaptability/Flexibility, Technical Documentation, and Organizational skills.
Language: Filipino and English

Project/s

CityAssist: Local Resident Monitoring and Demographic-Based Program Recommendation System

- This project focused on applying the previously developed RNN model to the city hall's program recommendation system. The goal was to enhance the system's ability to suggest relevant programs based on the model's predictions.
- Collaborated with stakeholders to ensure seamless implementation and functionality.
- The integration of the RNN model into the city hall program recommendation system significantly improved its effectiveness. Residents received more personalized and relevant program suggestions, leading to better utilization of city services.

SimpleRNN Demographic Insight Model

- Designed and developed a Recurrent Neural Network (RNN) model for program recommendations.
- Conducted extensive data preprocessing and augmentation to enhance the model's learning capability and performance.

A Thesis: BayaScript - Convolutional Neural Networks (CNN) Driven Character Recognition in a Mobile Application for Learning Baybayin

- This project focused on creating a comprehensive mobile application to aid users in learning and practicing the Baybayin script. The application not only provided lessons and quizzes but also used a CNN model to evaluate users' handwriting, giving real-time feedback on the accuracy of their script
- Led a team of developers and designers to create a user-friendly mobile application.
- Designed and integrated features for saving notes, lessons, quizzes, and user profiles.
- Implemented a custom Convolutional Neural Network (CNN) model for character recognition, enhancing the application's ability to provide feedback on practice exercises.

Developing a Hybrid LeNet-Inception Model for Learning Baybayin Script from Scratch

- Designed and implemented a hybrid LeNet-Inception neural network model to recognize and learn Baybayin script from scratch.
- Conducted extensive data preprocessing and augmentation to enhance the model's learning capability and performance.

A Web-Based Student Academic Performance Monitoring System for Banay-Banay Elementary School

- This project aimed to develop a web-based system for Banay-Banay Elementary School, allowing educators and administrators to monitor student academic performance remotely. The system focused on providing secure, accessible, and efficient tracking of student progress.
- Successfully led a team in developing a Web-Based application to enable remote monitoring of student academic performance
- Utilizes AES algorithm for data encryption to ensure user privacy and security
- Responsible for manipulation of the database in SQL, ensuring efficient data storage and retrieval
- Crafted diverse SQL queries to address real-world problems, ensuring efficient data handling and reporting.

Internship

Pixel8 Web Solutions & Consultancy Inc.   Legazpi City, Albay
Back End Developer   Feb 2024 – Apr 2024

- Contributed to backend development and optimization, ensuring alignment with client requirements.
- Implemented Git version control, managing errors and collaborating effectively on GitLab for issue tracking and merge requests.
- Developed backend APIs, conducted PHPUnit testing, and documented request and response processes.
- Applied object-oriented programming principles in PHP while familiarizing with Visual Studio Code IDE for efficient development workflows.

Experience

Project-Based Software Developer   Cabuyao City, Laguna
                                                               2023 -2024

- Completed various projects, including software applications, backend system implementation, and data analytics.
- Analyzed and interpreted complex data sets, providing actionable insights to clients.
- Worked with clients to understand their needs and deliver customized solutions.
- Developed strong client communication and project management skills through handling multiple projects.

Agile 360 Lazada Warehouse   Cabuyao City, Laguna
Officer in Chief   2020 - 2021

- Managed manpower workloads to ensure efficient operations.
- Facilitated communication within the team to align with business strategies.
- Implemented strategies to streamline operations and improve efficiency.
- Oversaw manpower allocation to meet workload demands effectively.