

Matthew Ariel A. Enarle

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SKILLS

Programming: Android Development (Java), Dart, Python, Javascript, C++

Web & Mobile: NodeJS, NextJS, Flutter, Android Studio (Java)

Database: MySQL (via XAMPP), phpMyAdmin, Firebase, SQLite, Hive

Machine Learning: Tensorflow, Keras, Google Colab

Interests: Software Development, Machine Learning, Mobile Development

Languages: English, Hiligaynon, Tagalog, Cebuano

EXPERIENCE

Research Programmer & Consultant

May 2024- Present

- Provided programming and technical consultancy to senior high school students at Sagay National High School, Negros Occidental, assisting with research and project development.

Freelance Software Developer

October 2022- Present

- Developed a diverse range of projects for various schools, students, and private clients, showcasing expertise in both front-end and back-end development.
- Created responsive websites and web applications tailored to client specifications, ensuring optimal user experience and functionality.
- Designed and developed mobile applications for both iOS and Android platforms, focusing on intuitive design and seamless performance.
- Implemented IoT solutions, integrating hardware with software to create innovative applications that enhance user interaction.
- Acted as a consultant for thesis projects, providing guidance and technical support for students in their research endeavors, helping them to successfully realize their project goals.

PROJECTS & ORGANIZATIONS

Road Eye (AI-Driven Road Damage Detection in the Philippines)

December 2024

- Developed a machine learning system using SSD to detect road cracks from user-uploaded images, enabling automated road condition analysis.

Reserba

October - December 2024

- Created a web, mobile, and admin platform for food stall reservation and management using MySQL, PHP, Flutter, HTML, and CSS.

Elderly Digital Steps

October - December 2024

- Created a mobile, and admin platform for Learners and Tutors that act as learning platform with Booking, Modules, and Quizzes using MySQL, PHP, Flutter, HTML, and CSS.

NeuroWarn BCI (Thesis)

January - December 2024

- Our Thesis which is Enhancing Safety in EEG-Controlled Wheelchairs with an RNN- Based Warning System, equipped also with an AI-powered smart wheelchair solution.

Off the Grid

April - July 2024

- Created a Hike tracking app similar to Strava but for Mountaineers in Negros Occidental using Google Maps API, Firebase, and Android Studio with Java.

Senyas (Centralized Warning System for DRRM)

March - May 2024

- Developed a disaster response system using ESP Wi-Fi, sensors, LEDs, and sound alerts, with notifications sent to a mobile app built with Android Studio (Java).

Dr. Rodolfo T. Blancia Infirmary

December 2022 - January 2023

- Designed a Google Sites website showcasing hospital information and services based in Kabankalan City, Negros Occidental.

EzPark

April - May 2023

- Developed a Flutter-based parking reservation app for the Lasalle area, utilizing Hive as the database

Brgy. Mandalagan – Community Website**March - July 2022**

- Built a Google Sites-based community website integrated with Google My Maps for interactive features.

Artist Guild**November 2021**

- Contributed as a member, specializing in film photography and creating featured projects.

EDUCATION

West Visayas State University**2021 - Present**

BS in Computer Science, Major in Artificial Intelligence

La Paz, Iloilo

- GWA: 1.33
- Thesis: *NeuroWarn BCI*: Enhancing Safety in EEG-Controlled Wheelchairs with an RNN-Based Warning System

Liceo de Lasalle - Senior High School**2018 - 2020**

Senior High (STEM)

Bacolod, Negros Occidental

- With High Honors, Principals Distinction

University of St. Lasalle - Prep to 10th Grade**2008 - 2018**

Junior High

Bacolod, Negros Occidental

- Eagle Scout Awardee: Boy Scout of the Philippines
- Basketball Varsity Team: 2011-2018