# Alecxander Jamille Andaya

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## Skills and Interests

**Technical:**

- Programming: Flutter/Android Studio, C++, Python, Java, C#, HTML, CSS, JS, Node JS, Next.js, React, SQL/MySQL, Laravel, PHP, Firebase
- AI-Robotics: Arduino, OpenCV, Neural Networks, AI Integration
- Project Management: Provide technical guidance on several projects to non-technical students

**Languages:** English (Fluent)

**Interests:** Robotics/IoT Devices, Software Development, Computer Vision, AI Development/Integration

## Experience

**Callbox Inc.**                                    Avescor Motors Building, Second, M.H, Molo, Iloilo City

**Software Developer Intern**

January 20, 2025 - April 24, 2025

- Developed a chatbot using Gemini API to help agents in their technical queries. The conversations are also saved in a local database using MySQL.
- Developed PDF generator for use in client relations.
- Developed a feature in the Callbox portal to perform CRUD operations on their data stored in a MySQL database.
- Maintain integral in house software applications to be used by the agents to streamline their work.

**Philippines Startup Challenge 9**                                    Iloilo City, Iloilo

**Regional 3rd Place**

October 21, 2024

- Developed and presented Access Assist, an AI-powered solution aimed at enhancing accessibility for individuals with disabilities through smart wheelchair technology.

**Robotic/IoT Devices Consulting**                                    Banga, Aklan

April 2024 - May 2024

April 2023 - May 2023

- Consulted for BSN students at Aklan State University for their Informatics subject in making IoT devices utilizing Arduino and several modules and sensors.
- Developed IoT devices and planned the schematics for the projects.

**Cyb Robotics Organization**                                    Iloilo City, Iloilo

**Board Member for Research and Development**

February 2023 - June 2024

- Managed multiple robotics projects, including the development of a water quality monitoring system and developed personal robotics projects like RFID and RC car development.
- Developed projects that would introduce and boost the organization's reputation and notoriety.
- Facilitated in a 1 month internship program for the Korean delegates from Jeju University focused on Smart Farming.

## Projects

### VITA (Virtual Teaching Application)
January - March 2020

An android app that I developed for a project in my first year of senior high school. It was developed as an alternative to the traditional pen and paper approach of teaching students their lesson like giving them quizzes or seat works.

### T.E.A (Teacher Evaluation App)
January - March 2021

A C#/.NET based android app that was developed in my final year of senior high school. Its purpose was to promote the evaluation of the teaching staff at STI College Kalibo by their students anonymously to know the teaching performance of the teachers. It features a 0-5 star rating and the ability to leave a comment on the teachers profile. It uses Google Firebase to store the data.

### Siquijor Promotional Site
April - May 2021

A simple HTML, CSS, JS informative website designed to promote tourism in Siquijor, Philippines. It features landmarks, foods, fun activities, and information about Siquijor and all its wonders.

### DRINCK
May 2021

A personal project of mine developed using Android Studio in Java. A fun drinking game to play with friends. In this app, everyone will have the freedom to write any truths or dares that they want each other to perform or answer. This is basically a digital spin the bottle game.

### Badyet
October - December 2022

A budgeting app developed using Flutter. This app is designed for students to manage their weekly expenses by providing their desired budget for the week which the app uses to calculate how much to spend each day. It also keeps track of the items/expenses you have each week.

### MATA
November 2023

A mechanical eye made up of servos that utilizes computer vision and Arduino to track the face/head of a person and follows it with its eyes. Basically its a set of mechanical eyes that looks at you and tracks your head movements.

### Neurowarn
November 2023 - November 2024

Our university thesis project that uses Emotiv EEG headset technology to collect real time brainwave data. It is also connected to an electric wheelchair which the user can control only with their mind. My role was to develop an RNN-LSTM model to predict the incoming brain waves to make sure that the next movement direction they will take will not have any obstacles ahead and warn them if there are any.

### Spotify Playlist Recommendation Web App
March 2025

A web app that uses the Spotify API together with the Gemini API to come up with a playlist based on a prompt that you provide it with. It then generates a list of the songs based on your prompt and automatically creates the playlist on your Spotify account where you can listen to it.

## Education

**West Visayas State University**                    Iloilo City, Philippines

BS in Computer Science, Major in Artificial Intelligence

GWA: 1.37 (Magna Cum Laude)

Graduated: June 13, 2025

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

**STI College Kalibo**                    Kalibo Aklan, Philippines

Information and Communication Technology Strand (Mobile App and Web Development)

2019-2021

With High Honors

**Garcia College of Technology Inc.**                    Kalibo Aklan, Philippines

2015 – 2019

With Honors