



MICHAEL VINCENT R. ALCOSEBA

COMPUTER ENGINEER

Turning Concepts into Functional Applications with proficiency in Python, C++, JavaScript, and PHP. Experienced in Full-Stack Development, Database Management, and Modern Frameworks, delivering robust and scalable solutions that improve efficiency and user experience.



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INTERNSHIP EXPERIENCE

Department of Social Welfare and Development - Computer Engineering Intern

February 2025 - March 2025

MERN Stack Project: Community-Based Organization Registration System

- Developed a multi-step registration system for Community-Based Organizations using the MERN stack.
- Implemented form validation and restriction, file uploads, and responsive UI to digitize manual processes.
- Coordinated with admin staff to align features with real-world workflows.
- Participated in digital transformation events and attended a DICT e-Gov workshop.

SKILLS AND KEY COMPETENCIES

- Programming & Development**
 - Python, C++, JavaScript, PHP, SQL, HTML/CSS, React, React Native, Laravel
- Frameworks & Tools**
 - Node.js, MongoDB, Express.js, MATLAB, Arduino, Git, ChatGPT, Microsoft 365, Google Suite, AppScript
- AI & Data Science**
 - Machine Learning, Deep Learning, Computer Vision, Data Analysis
- Hardware and Systems**
 - Digital Signal Processing, Troubleshooting, Internet of Things (IoT), Embedded Systems, Networking
- Communication & Interpersonal**
 - Written and Verbal Communication, Problem-Solving, Analytical Thinking, Attention to Detail, Research, Team Leadership, Collaboration

EDUCATION

B.S. in Computer Engineering – Technological Institute of the Philippines

2019 – 2025 | Cubao, Quezon City

Dean's Lister, SY 2022–2023 (GWA 1.40)

PROJECTS

- Mobile Application for Student Elective Recommendation** – React Native (2024)
 - Developed and deployed a cross-platform mobile app for Computer Engineering students at TIP.
 - Implemented a questionnaire-based recommendation system to assist in selecting elective tracks.
- Multi-Step Online Registration System for Community-Based Organizations** – MERN Stack (2025)
 - Built a full-stack web application for the Department of Social Welfare and Development – EPAHP-NPMO.
 - Streamlined the validation and registration process of CBO products with a multi-step workflow using MongoDB, Express.js, React, and Node.js.
- Vision-Based Wall Area Estimation for Robotic Coater** – Computer Vision, Deep Learning (2025)
 - Designed a vision-based system to automate wall surface detection and paint volume estimation for robotic coating applications.
 - Applied object detection and segmentation to exclude windows and doors, improving accuracy and efficiency of robotic painting.

REFERENCES

Mr. Paul Mike V. Albao

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