MICHAEL VINCENT R. ALCOSEBA

COMPUTER ENGINEER

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https://cent-portfolio.vercel.app/

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.

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.

Moxitrack - Technical Executive **November 2025**

Hands-on Technical Support and Client Engagement During a PHILSME Business Expo

- Demonstrated the product to CEOs and Industry professionals from different countries, securing strong leads.
- Set up a virtual environment for the applications' testing and presentations.
- Walked visitors through core features and workflows of the system.
- Answered technical questions and logged issues and requests.
- Shared findings with the team to support product improvements.

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.
- **Portfolio Website –** React, Vite, CSS Modules, Vercel (2025)
  - Developed a personal portfolio website to showcase projects, skills, and certifications with a responsive, modern design.
  - Deployed on Vercel with GitHub integration for continuous deployment and optimized performance. You can access it here: *https://cent-portfolio.vercel.app/*