



Dave Zachary Macarayo

Full-Stack Developer · AI Engineer

CONTACT

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TECHNICAL

CORE STACK

Next.js React TypeScript
Node.js NestJS Laravel
CodeIgniter PHP

AI SYSTEMS

LLM Apps RAG Systems
Text-to-Speech LangGraph
Computer Vision
YOLO (v5/8/11) Biometrics

TOOLS & HARDWARE

Docker Git Selenium JIRA
Raspberry Pi

EDUCATION

BS Computer Engineering

Univ. of Science & Technology of Southern Philippines

2019 - 2023

Thesis: Customer Counting & Mapping for Intelligent Retail Environment using Computer Vision

Senior High School — STEM

USTP - CDO

2017 - 2019

PROFILE

Full-Stack Developer and AI Engineer with a Computer Engineering degree and 3+ years of professional experience building web applications, AI integrations, and IoT solutions. Strong in delivery, quality assurance, and startup execution.

EXPERIENCE

Project Manager · Full-Stack Developer

Nov 2023 - Oct 2025

Cerebrox IT Solutions · Cagayan de Oro, Philippines

- Promoted to PM in Mar 2024; led sprint planning, stakeholder delivery, and client project execution.
- Built full-stack web applications with Laravel and CodeIgniter, plus Node.js backends for IoT device management.
- Mentored teammates through code reviews and pair programming sessions.

AI Engineer · Co-Founder

Jan 2024 - Oct 2025

Kanto Code · Metro Cagayan de Oro, Philippines

- Co-founded a freelance tech collective delivering AI integrations and web solutions for local businesses.
- Integrated LLM, retrieval, text-to-speech, LangGraph, and computer vision workflows into production web applications.
- Provided ML consulting for academic research; managed pricing and agile delivery in a lean team.

Co-Founder & CEO

Aug 2022 - Nov 2023

Engoumerate AI · Cagayan de Oro, Philippines

- Co-founded AI startup via USTP Student Incubation Program; evolved capstone thesis into a product.
- Led MVP development, product roadmap, cross-functional team of 5, and stakeholder pitching as CEO.
- Regional Qualifier, Philippine Startup Challenge 7 (DICT Region 10, Sep 2022).

Software QA Intern

Feb 2023 - May 2023

meldCX · Cagayan de Oro, Philippines

- Wrote and executed test cases for web apps at an internationally recognized tech company.
- Built Selenium automation scripts; applied computer vision to QA testing workflows.

ACHIEVEMENTS & ACTIVITIES

Impact to Innovate: 24-Hour Hackathon 1st Runner-Up · ₱30,000

USTP, in partnership with FICCO · Part of a 4-member team
April 25, 2025

CDO b.i.t.e.s Pre-Incubatee · Cohort 7

Cagayan de Oro Business Incubation, Technology, Entrepreneurship & Startups
Oct 2023

DOST-SEI Scholar

Dept. of Science & Technology - Science Education Institute · No failing grades throughout degree
Jun 2019 - Aug 2023

Regional Qualifier — CpE Challenge Quiz Bowl

ICpEP Region X · Placed 2nd in regional qualifier
Dec 2022

General Secretary — ICpEP Student Edition USTP

Managed org documents; led caption writing and major academic events
Aug 2021 - May 2022