

Michael Ashley Ygaña

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EDUCATION

CITY COLLEGE OF CALAMBA

Calamba City, Laguna

Bachelor of Science in Computer Science

August 2022 - Present

Relevant Coursework: Data Structures and Algorithms, Machine Learning, and Web Development

TRACE COLLEGE

Los Baños, Laguna

Senior High School

July 2020 - August 2022

Strand: Science Technology Engineering Mathematics

With Honors

TECHNICAL SKILLS & PROJECTS

Programming skills: C, C++, Python, MATLAB, JavaScript, PHP, Java, REACT, Node.js

Design: Figma

ReUseWrite – Full-Stack Developer

- Created an **AI-powered web app** that enables users to rewrite and repurpose text up to **10x faster**, enhancing clarity and originality with a **98% user satisfaction rate** during beta testing.
- Engineered the full stack using **React**, **Next.js**, **FastAPI**, and **Groq**, reducing backend response time by **40%** with optimized API routing.
- Deployed on **Vercel**, with backend hosted via scalable API services to support high-performance NLP tasks.

Pathfinder CCC – Frontend Developer

- Built a **mobile indoor navigation app** for City College of Calamba used by **1,000+ students**, leveraging **Dijkstra's algorithm** for optimal campus routing with **95% path accuracy**.
- Designed and implemented a user interface that reduced navigation time by **60%** in user tests, using clear map visuals and intuitive direction flows.
- Developed using **React Native**, **Expo**, and **Firebase**, enabling **cross-platform deployment** and real-time data updates with minimal latency.