



Emmanuel Delacruz Malagamba

Full-Stack Software Developer

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Education	
STI-College General Santos	Sept 2021 – June 2025
Bachelor of Science in Computer Science	Tertiary
1.75 GWA (3.5 / 4.0 GPA)	
Coursework: Data Structures & Algorithms, Software Engineering 1 & 2, Software Quality Assurance, Artificial Intelligence, Application Development and Emerging Technologies, Mobile Programming	



Notre-Dame Siena College of General Santos	June 2019 – April 2021
Science, Technology, Engineering, and Mathematics (STEM)	Senior High School


Experience	
Kave Guild	June 2025 - July 2025
Freelance Full-Stack Developer	
<ul style="list-style-type: none">Improved UI responsiveness across tablet and mobile devices (L, M, S breakpoints), ensuring seamless user experience on multiple form factors.Refactored and modularized existing code, improving maintainability and scalability for future development.Collaborated with the lead developer on code reviews, aligning enhancements with best practices.	


Kave Guild	January 2025 - May 2025
Full-Stack Developer Intern	
<ul style="list-style-type: none">Developed frontend components for POS modules <i>(Sales, Products, Transactions, Shifts)</i>, including tables, counters, and product management features.Initialized and structured the backend using <i>MVC architecture</i> (Express, MongoDB), establishing a scalable foundation for future development.Contributed to a 4-member Agile Scrum team, participating in sprint planning, code reviews, and daily stand-ups to deliver features on schedule.	


STI-College General Santos	January 2024 - November 2024
Researcher & Full-Stack Developer	
<ul style="list-style-type: none">Empowered farmers through a cross-platform app for pest identification and yield forecasting using <i>CNN TensorFlow/Keras</i> and <i>OpenCV</i>.Achieved <i>96.5%</i> accuracy in pest classification using custom-trained machine learning model.Ensured iterative progress and risk mitigation by applying the <i>Agile Spiral model</i>.	

STI-College General Santos : Code Fest (1st Runner-Up)	March 2024
Front-End Developer	
<ul style="list-style-type: none">Led front-end development in 6-hour coding challenge with 3-person teamDeveloped Java-based hotel reservation mobile applicationDemonstrated rapid prototyping and teamwork skills under pressure	

Projects & Contributions	
Kave Guild Pharmacy	
POS System with Integrated Inventory	
 https://kavepharmacy.netlify.app	
<ul style="list-style-type: none">Contributed to the development of a full-stack POS system supporting daily sales and inventory operations, building core frontend and backend features.Built CRUD functionality for product management, enabling accurate stock tracking and smoother sales workflows.Collaborated in a 4-member Agile Scrum team, delivering frontend (React) and backend (Node.js, MongoDB) features through daily stand-ups and sprint-based development.	
MongoDB, React, Vite, Express, Mongoose, Nodejs	
Harvest Assistant: A Smart Pest Management and Enhanced Grain Production	
Integrated web admin, mobile app, and CNN model to address challenges in local grain agriculture.	
 https://github.com/Amenyuwel/Harvest-Frontend	
<ul style="list-style-type: none">Built mobile platform for farmers with pest image classification using TensorFlow/Keras, trained and deployed custom ML model achieving <i>96.5%</i> classification accuracy.Designed features for gross income estimation, seasonal pest activity, and yield forecasting.Conducted alpha and beta tests with farmers; achieved strong adoption for pest classification and harvest planning.	
React, Nextjs, React Native Expo, Express, MongoDB, Mongoose, Python, Flask	

AI-Refine
Web-based image augmentation tool for dataset refinement for CNN Models.
 https://github.com/Amenyuwel/Ai-Refine
<ul style="list-style-type: none">Built responsive web application using Next.js and PocketBase for CNN model training enhancementImplemented drag-and-drop functionality with real-time image processing (flip, grayscale, blur, brightness)Enhanced CNN model training by developing a dataset refinement tool with image augmentation features (flip, blur, grayscale, brightness).
React, Nextjs, PocketBase

Appliance Shop E-Commerce
A comprehensive back-office system for inventory, analytics, forecasting, and Point of Sale (POS).
 https://github.com/VKx64/DK-Admin
<ul style="list-style-type: none">Integrated sales forecasting using Facebook Prophet and displayed results through interactive front-end visualizations.Built interactive analytics dashboard displaying sales trends and customer insightsBuilt RESTful API with complete CRUD operations and secure authentication, enabling seamless and reliable data flow between front-end and back-end.
Python, Forecasting, Flask, RESTful API

Thesis Library Portal
STI-College General Santos' web-based portal for managing and accessing digital thesis collections.
 https://github.com/Kristoferseyan/thesis_lib
<ul style="list-style-type: none">Enhanced UI performance and responsiveness across multiple device formatsRefactored architecture, reducing file complexity and improving maintainability
React, Nextjs, Responsiveness, TailwindCSS

Skills	
Programming Languages: JavaScript & Python	
Frontend: TailwindCSS, HTML, CSS, React (NextJS & Vite)	
Backend: Node.js, JWT, Bcrypt, Express, Flask	
Database: MongoDB, Sqlite3, and MySql	
Mobile: React Native Expo, Expo Go	
AI/ML: TensorFlow, Keras, OpenCV, Prophet, Kaggle	
Other: Git, Github, Agile/Scrum, Spiral	