

Emmanuel Delacruz Malagamba

Full-Stack Software Developer

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Summary	
Full-stack developer specializing in the MERN stack with hands-on experience in Python and machine learning. Built scalable POS, e-commerce, and AI-powered agricultural apps from concept to deployment. Strong collaborator in Agile teams, focused on delivering secure, high-performing applications with intuitive user experiences.	
Experience	
<div><div>Kave Guild</div><div>Freelance Full-Stack Developer</div><div><div><div></div><div>Maintained and enhanced a production-ready POS system, adding new features and resolving bugs to ensure system stability.</div></div><div><div></div><div>Collaborate with lead developer on code reviews and system improvements.</div></div><div><div></div><div>Support ongoing development using <i>MERN</i> stack technologies.</div></div></div></div> <div><div>June 2025 - July 2025</div></div>	
<div><div>Kave Guild</div><div>Full-Stack Developer Intern</div><div><div><div></div><div>Delivered a functional POS system by contributing to the full-stack development using the <i>MERN</i> stack with integrated inventory tracking.</div></div><div><div></div><div>Ensured seamless user experience across devices by implementing responsive designs.</div></div><div><div></div><div>Contributed to a 4-member Agile Scrum team, participating in sprint planning, code reviews, and daily stand-ups to deliver features on schedule.</div></div></div></div> <div><div>January 2025 - May 2025</div></div>	
<div><div>STI-College General Santos</div><div>Researcher & Full-Stack Developer</div><div><div><div></div><div>Empowered farmers through a cross-platform app for pest identification and yield forecasting using <i>CNN TensorFlow/Keras</i> and <i>OpenCV</i>.</div></div><div><div></div><div>Achieved <i>96.5%</i> accuracy in pest classification using custom-trained machine learning model.</div></div><div><div></div><div>Ensured iterative progress and risk mitigation by applying the <i>Agile Spiral model</i>.</div></div></div></div> <div><div>January 2024 - November 2024</div></div>	
<div><div>STI-College General Santos : Code Fest (1st Runner-Up)</div><div>Front-End Developer</div><div><div><div></div><div>Led front-end development in 6-hour coding challenge with 3-person team</div></div><div><div></div><div>Developed Java-based hotel reservation mobile application</div></div><div><div></div><div>Demonstrated rapid prototyping and teamwork skills under pressure</div></div></div></div> <div><div>March 2024</div></div>	
Projects & Contributions	
<div><div>Harvest Assistant: A Smart Pest Management and Enhanced Grain Production</div><div>An integrated solution featuring a web admin platform, mobile application, and CNN model aimed at addressing challenges in local grain agriculture.</div><div><div></div><div>https://github.com/Amenyuwel/Harvest-Frontend</div></div><div><div><div></div><div>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.</div></div><div><div></div><div>Designed features for income estimation, seasonal pest activity, and yield forecasting.</div></div><div><div></div><div>Conducted alpha and beta tests with farmers; achieved strong adoption for pest classification and harvest planning.</div></div></div><div>React, Nextjs, React Native Expo, Express, MongoDB, Mongoose, Python, Flask</div></div>	
<div><div>AI-Refine</div><div>Web-based image augmentation tool for dataset refinement for CNN Models.</div><div><div></div><div>https://github.com/Amenyuwel/Ai-Refine</div></div><div><div><div></div><div>Built responsive web application using Next.js and PocketBase for CNN model training enhancement</div></div><div><div></div><div>Implemented drag-and-drop functionality with real-time image processing (flip, grayscale, blur, brightness)</div></div><div><div></div><div>Enhanced CNN model training by developing a dataset refinement tool with image augmentation features (flip, blur, grayscale, brightness).</div></div></div><div>React, Nextjs, PocketBase</div></div>	
<div><div>Appliance Shop E-Commerce</div><div>A comprehensive back-office system for inventory, analytics, forecasting, and Point of Sale (POS).</div><div><div></div><div>https://github.com/VKx64/DK-Admin</div></div><div><div><div></div><div>Integrated sales forecasting using Facebook Prophet and displayed results through interactive front-end visualizations.</div></div><div><div></div><div>Built interactive analytics dashboard displaying sales trends and customer insights</div></div><div><div></div><div>Built RESTful API with complete CRUD operations and secure authentication, enabling seamless and reliable data flow between front-end and back-end.</div></div></div><div>Python, Forecasting, Flask, RESTful API</div></div>	
<div><div>Thesis Library Portal</div><div>STI-College General Santos' web-based portal for managing and accessing digital thesis collections.</div><div><div></div><div>https://github.com/Kristoferseyan/thesis_lib</div></div><div><div><div></div><div>Enhanced UI performance and responsiveness across multiple device formats</div></div><div><div></div><div>Refactored architecture, reducing file complexity and improving maintainability</div></div></div><div>React, Nextjs, Responsiveness, TailwindCSS</div></div>	
Skills	
<div><div>Programming Languages</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>JavaScript, Python</div></div>	
<div><div>Frontend</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>Next.js, TailwindCSS, HTML, CSS, React</div></div>	
<div><div>Backend</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>Node.js, Express, Flask, REST APIs, JWT, Mongoose, Postman</div></div>	
<div><div>Database</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>MongoDB, PocketBase, MySQL, Supabase</div></div>	
<div><div>Mobile</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>React Native, Expo Go</div></div>	
<div><div>AI/ML</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>TensorFlow, Keras, OpenCV, Prophet, Kaggle</div></div>	
<div><div>Tools and Workflow</div><div><div><div></div><div></div><div></div><div></div><div></div></div></div><div>Git, Github, Agile/Scrum</div></div>	
Education	
<div><div>STI-College General Santos</div><div>Bachelor of Science in Computer Science</div><div>1.75 GWA (3.5 / 4.0 GPA)</div></div>	<div><div>Sept 2021 – June 2025</div><div>Tertiary</div></div>
<div><div>Notre-Dame Siena College of General Santos</div><div>Science, Technology, Engineering, and Mathematics</div></div>	<div><div>June 2019 – April 2021</div><div>Senior High School</div></div>