

MARY ANGELINE SAMSON

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LinkedIn

Portfolio

Summary

Computer Engineering student specializing in low-code web application development at Mapua University. Currently developing full-stack development skills through two React-based personal projects and gaining hands-on experience as a Software Engineering Intern at Manulife IT Delivery Center for 9 months. During my internship, I've been working on document processing workflows using Azure AI integration, learning CI/CD pipeline management, and contributing to API development with Express.js and SOAP protocols.

Education

Mapúa University

Bachelor of Science in Computer Engineering

Nov 2020 – Feb 2026

Intramuros, Manila

Experience

Software Engineering Intern

Manulife IT Delivery Center Asia Inc.

Sep 2024 – May 2025

Makati, Philippines

- Completed comprehensive full-stack developer bootcamp during internship, gaining proficiency in MERN stack, REST APIs, Apollo GraphQL, unit testing frameworks, and Agile/SCRUM methodologies.
- Developed 'Index 2.0', a Python-based Azure Function application that leverages Azure AI's optical character recognition to automate health insurance form processing. Project forecasts significant business impact with potential 10% cost reduction and 5% increase in document processing capacity.
- Transitioned to Group Benefits team as Backend Engineer Intern, contributing to API integration of SOAP functions for the Group Benefits management website. Maintained code quality through thorough peer reviews, comprehensive unit testing, and detailed progress reporting in daily stand-ups.

Technical Committee Head

Mapúa-ICpEP.SE

2021 – 2022

Manila, Philippines

- Led the Technical Committee of Mapúa-ICpEP.SE, managing cross-functional teams to deliver technical solutions for organizational projects and events. Applied strong leadership and project management skills to ensure seamless execution of technical initiatives, resulting in improved operational efficiency.
- Contributed to the development of Figma plugin 'Composer', an automated certificate generation system, reducing manual processing time.
- Created comprehensive technical documentation and integrated automated email distribution using Google Sheets scripting, enhancing workflow efficiency.

Projects

SKIDD App | React, Node.js, FastAPI, ResNet, CNN, YOLOv7

2024

- A skin disease classification app that uses multiple trained image classification models such as ResNet, CNN, and YOLOv7. Built with a React frontend and hybrid backend architecture using Node.js and FastAPI to optimize both web framework capabilities and machine learning model deployment.

Physiotherapy Exercise Recognition for Scoliosis Patients | Python, OpenCV, CNN, Raspberry Pi

2025

- Finished thesis dissertation that uses a two-stream CNN model in classifying various Physiotherapy exercises on an edge computing hardware. This paper was presented in an online international conference ICISPC 2025 (Imaging, Signal Processing, and Communications).

Index 2.0 | Python, Azure Functions, GPT-4, OCR, Jenkins

2025

- Python-based Azure Function application that integrates GPT-4 with Azure's Optical Character Recognition to automatically parse and structure image/scanned health insurance forms into organized JSON format. Implemented with the Jenkins CI / CD pipeline for automated testing and deployment, streamlining document processing workflows for insurance operations.

Technical Skills

Languages: JavaScript, Python

Frameworks/Libraries: React, Node.js, FastAPI, Express.js

Tools & Technologies: Jenkins, Azure Functions, REST APIs, Git

Machine Learning: ResNet, CNN, OpenCV

Methodologies: Agile/SCRUM, CI/CD, Unit Testing, Code Reviews