Mary Angeline Samson

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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.

Professional Experience

2022 – 2023

Technical Committee Head

Mapúa-ICpEP.SE | 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.

September 2024 – MAY 2025

Software Engineering Intern

Manulife IT Delivery Center Asia Inc.| 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.

Skills

JavaScript · Python · REACT · Jenkins · Azure Functions · Machine Learning · REST APIs · Figma

Projects

SKIDD App

A comprehensive skin disease classification application leveraging multiple trained image classification models including ResNet, CNN, and YOLOv7 for accurate diagnosis. 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 with Raspberry Pi-Based Computer Vision

Completed thesis research developing a two-stream CNN model for real-time analysis of physiotherapy exercises on edge computing hardware. The system enables portable, automated exercise monitoring for scoliosis treatment compliance. Research findings were presented at ICISPC 2025 (International Conference on Imaging, Signal Processing, and Communications).

Index 2.0

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

Education

NOV 2020 – FEB 2026

Bachelor of Science in Computer Engineering

Mapúa University | Intramuros, Manila