

# Pearl Angelou O. Lim

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## EDUCATION

### Mapúa Malayan Colleges Laguna

Bachelor of Science in Computer Science

Dean's Lister

Relevant Coursework: Software Engineering; Machine Learning; Operating Systems

Cabuyao, Laguna

*Expected October 2025*

## EXPERIENCE

### Data Science Intern

STMicroelectronics Inc.

*April 2025 - July 2025*

- Performed exploratory data analysis (EDA) and built and evaluated machine learning models for predictive insights
- Created interactive dashboards to communicate findings to stakeholders
- Tools used: Python, Dataiku, Jupyter Notebook, Spotfire, Power BI

## PROJECTS

### AgriKA (Advancing Agricultural Knowledge through Innovation)

*Thesis Project*

- Trained a CNN-LSTM model using satellite images, weather data, and yield data for yield prediction.
- Developed a Flask-based web app and designed an interactive UI with Folium maps, tables, and bar graphs to dynamically visualize yield predictions based on year and season.
- Implemented a MySQL-based relational database to manage historical and real-time yield data.
- Deployed on AWS, with automated background tasks for periodic data updates.

### Haste-urant: A Digital Ordering Management System

- Designed and developed a web-based ordering management system for WingSpot restaurant to streamline order processing, tracking, and management.
- Implemented a MySQL-based relational database to efficiently handle orders, menu items, and user data.

### Bibe Kalma: Endless Runner Game

- Designed and developed a 2D endless runner game using Unity and C#.
- Implemented physics-based movement, collision detection, and scoring mechanics to track player progress.

## EXTRACURRICULAR ACTIVITIES

### 2nd Place - Microsoft ASEAN AI for Accessibility Hackathon 2024

- Ideated solutions to address real-world accessibility challenges using AI.
- Proposed LORO, a mobile app designed to enhance speech learning for children with speech disabilities, utilizing Natural Language Processing (NLP) to make the process more engaging and accessible.

## ADDITIONAL

**Technical Skills:** Python, JavaScript, HTML, CSS, C#, MySQL, Flask, MVC, GitHub, PHP

**Soft Skills:** Problem-solving, teamwork, adaptability, communication, and quick learning.

**Certifications:** CompTIA IT Fundamentals; AWS Academy Cloud Foundations; Google Skill Boosts (Networking Fundamentals in Google Cloud; Create and Manage Cloud Resources; and more)