



# CHEILOU MARIE PURO

Computer Science Student

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## ABOUT

I'm a CS student focused on backend development, with experience in Python, FastAPI, and full-stack system design. I enjoy building AI-driven solutions and scalable backends. I've participated in multiple hackathons, and developed production-ready systems with external API integrations.

## EDUCATION

### Lyceum of the Philippine University Cavite

Bachelor's Degree in Computer Science

Expected Graduation: 2027

## TECHNICAL SKILLS

**Languages:** Python, PHP, Dart

**Data Science:** NumPy, Pandas, NLTK, Jupyter Notebook

**DevOps:** Git, GitHub

**Database:** MySQL, MongoDB, SQLite, Firebase

**Frameworks:** FastAPI, Tkinter, Flutter, React, React Native

**Frontend:** HTML, CSS, JavaScript

**AI/ML & APIs:** Google Gemini, OpenAI, NVIDIA API

**IDE:** VS Code, Android Studio, Cursor

## CERTIFICATES

### IT Specialist - Database

Certiport - A Pearson VUE Business

May 2025

**Completion of CS50SQL**, including seven problem sets, and one final project.

Harvard OCW, January 2025

**Completion of CS50P**, including nine problem sets, and one final project.

Harvard OCW, January 2025

### Python Essentials 1 & 2

Certiport - A Pearson VUE Business

June 2024

**Completion of CS50x**, including ten problem sets, nine labs and one final project.

Harvard OCW, March 2024

### 8-hour Training in

"Data Science & Data Analytics with Big Data"

MSTCONNECT PH, December 2023

## PROJECTS

### Pirates Way Finder

A comprehensive indoor navigation application designed to help users navigate through building floors with accessibility features and intelligent pathfinding.

Tools: Python, FastAPI, MongoDB, Pytest, Git

### TrendPulse

An AI-powered trend detection system that analyzes online data to identify emerging trends and recommend products that small vendors should sell before the trend peaks.

Tools: Python, FastAPI, MongoDB, OpenAI, ChromaDB, Pytest, Git

### EtherFlow

A real-time cryptocurrency volume anomaly detector with candlestick visualization and terminal-style dashboard for tracking blockchain market anomalies.

Tools: JavaScript, D3.js, HTML, CSS, Binance WebSocket API, Git

### FLECS

A unified web-based system that integrates point-of-sale, inventory management, and demand-driven restocking for independent retailers.

Tools: Python, Flask, React, SQLite, JavaScript, Axios, Recharts, Git



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