

John Andre S. Yap

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Profile

Second-year CS student at USC, currently interning as an AI engineer building Python backends, ecommerce analysis pipelines, and video generation services. I think in systems and constraints — what's fixed, what's flexible, what breaks. Leading GDGoc-USC, running a homelab, and researching AI memory architectures and university timetabling on the side.

Experience

AI Engineer Intern

Philippines

Evo Tech Software Solutions

Sept 2025 – present

- Built a FastAPI backend with 16 endpoints for AI-powered ecommerce listing analysis — a two-phase pipeline that analyzes each image individually then synthesizes insights across the full listing using GPT-4 Vision
- Engineered a video generation service using Sora 2 and Sora 2 Pro with persistent character identities across scenes, multi-duration support (15–60s), and context-aware model selection based on content type (UGC vs. showcase)
- Built production-grade features into the API
 - async concurrent processing, per-IP rate limiting, in-memory caching, retry logic, and a three-layer timeout system with graceful degradation
- Built image generation pipelines with Nano Banana Pro for ecommerce product visualization and designed RAG pipelines for internal document retrieval

Systems Developer, Web Developer & Secretary

Cebu City, Philippines

Cebu Best Value Trading (CBVT)

Jan 2024 – present

- Built a quotation generator that uses OCR and AI to read my grandfather's handwritten notes and output formatted digital quotations — replacing a manual, error-prone process
- Built a kitchen management system to handle inventory, orders, and operations for a separate family business unit
- Developing and maintaining the company website
- Handle administrative tasks and documentation for the family company

Lead

Cebu City, Philippines

Google Developer Groups on Campus – USC (GDGoc-USC)

Jan 2026 – present

- Promoted from Data Science Officer (Aug 2025) to Chapter Lead (Jan 2026)
- Organizing technical workshops, study jams, and community initiatives for USC CS/tech students

Education

University of San Carlos

Cebu City, Philippines

BS in Computer Science

Sept 2023 – June 2027

- Dean's Lister — 2nd Semester, A.Y. 2024–2025
- DOST-SEI Merit Scholar (Jan 2024); DataCamp Scholar (Jan 2025)
- AI and Data Lead, DOST START Program
- Second Place, USC SHS-STEM 4th Research Congress (May 2023)
- Graduated Senior High School with High Honors; Carolinian Academic Distinction (CAD) — all Grade 11 & 12 semesters

Projects

timetabling-algorithms — University Scheduling Research

2025 – present

- A research framework for solving the very real problem of scheduling university courses without conflicts — treating it as a constraint problem where rooms, professors, and time slots all have to fit together
- Compares a custom backtracking implementation against Google's OR-Tools CP-SAT solver to see where each approach wins and loses, tested on both real course data and synthetic problem sets

jays-ai-agent-suite — Personal Agent Library

2025 – present

- A growing collection of specialized AI agents built while working with Claude Code — each one scoped to a specific job like architecture tracing, debugging, design review, or session archiving
- Built to reflect how I actually work rather than how workflows are supposed to look, with clear role boundaries and explicit handoffs between agents

ai-yeast — LLM Memory System

2025 – present

- A memory system for language models that gives them a sense of continuity across conversations — built on three layers (recent events, distilled facts, and core identity) with memories that strengthen through use and decay over time
- Includes a RAG layer for document retrieval and reflection gates that validate outputs before updating memory, running on Mistral 7B via Ollama

Amazon Reviews Sentiment Analyzer

Sept 2024 – present

- A machine learning project that reads Amazon product reviews and figures out how customers actually feel about what they bought
- Built two parallel pipelines (TensorFlow and Scikit-learn) to compare approaches and see which one reads sentiment more accurately

Fake News Detection App

Jan 2024 – June 2024

- A classifier that scrapes news articles in real time and flags whether they're likely authentic or fabricated, built with TensorFlow
- Combined web scraping, text preprocessing, and sentiment analysis into a single end-to-end pipeline

Skills

AI/ML & Data: Python, RAG pipelines, LangChain, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, NLP

Backend & APIs: RESTful API design, FastAPI, Flask, Node.js, Express, SQL, MongoDB, Firebase

Systems & Infrastructure: Linux, Bash scripting, systems administration, homelabbing, Git, GitHub

Generative AI: LLM orchestration, Sora 2 / Sora 2 Pro (video generation), Nano Banana Pro (image generation)

Other: Java, C, JavaScript, React, PHP, Laravel, HTML/CSS, DeFi/Web3 (exploratory)

Achievements

- DataCamp Associate Python Certificate (Jan 2025) — data manipulation, analysis, and ML
- LeetCode: 90+ problems solved | HackerRank: 5-Star Problem Solving badge
- SoloLearn certificates: JavaScript, Java, Python 3, CSS, HTML, C++ (2023)
- Active GitHub contributor — consistent daily contributions across multiple public repositories