

Lance Jacob Silverio

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https://github.com/jacob-cob-null

SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Frameworks & Databases: Next.js, React, FastAPI, Flask, LangChain, Supabase, Firebase, Prisma, PostgreSQL, SQLite, Node.js

AI & Libraries: LLM Integration, Prompt Engineering, n8n, NumPy, Pandas

DevOps & Testing: Git, GitHub, Jest, Pytest, Vercel

EDUCATION

Bachelor's in Computer Science

Angeles University Foundation • GPA: 3.7/4.0

Pampanga, Angeles City • 08/2024 - 06/2028

Consistent College Scholar (Dean's Lister)

WORK EXPERIENCE

AUF MAGNUS Research Hub

Pampanga, Angeles City • 02/2026 - Present

The Center for Advanced Research and Innovation (CARI) is a research center under the Office of the Vice President for Research and Innovation (OVPRI) at Angeles University Foundation, established to foster innovation-driven and data-informed research across disciplines.

Data Lead & Student Researcher

Engineered the benchmark pricing database and OCR data pipeline for Fee-Ver 2.0, an AI-powered hospital billing verification system adopted as university research — uncovering lab price variances of **150–300%** across hospitals and supporting a system targeting **4.2M HMO beneficiaries** with **PHP 30,000** in research funding.

PROJECTS

pAIge (github.com/jacob-cob-null/pAIge)

03/2026 - Present

Architected a **6-stage synthetic document generation pipeline** using **LangChain**, **Groq**, and **Augraphy** to produce realistic training data for OCR and document AI models — eliminating content hallucinations through a data-first Field Bank approach with **23+ unit and integration tests**.

Taskboard ([Taskboard.page](#))

01/2026 - 02/2026

Engineered a full-stack team management platform adopted by **3 classes** and **2 college-wide** organizations, centralizing event scheduling, member management, and announcements into a single workspace, with a batch email system delivering announcements to **100+ recipients per send**, synced in Google Calendars.

Fee-Ver 1.0 (1st Runner-Up, Alibaba Cloud Philippines AI Hackathon 2025)

11/2025 - 11/2025

Aggregated and engineered a benchmark pricing database from **14–15 publicly available hospital bill records** across the Philippines, powering an AI-driven billing summarizer and discrepancy detection system. Currently being expanded into a research paper.

AWARDS & SCHOLARSHIPS

1st Runner-Up, AUF MAGNUS RDLead competition

01/2026

Center for Advanced Research and Innovation (CARI)

2nd Runner-Up, AI-Hack

12/2025

GDG-HAU Hackathon

1st Runner-Up, Alibaba Cloud Philippines AI Hackathon 2025

11/2025

Alibaba Cloud Philippines

VOLUNTEERING & LEADERSHIP

JPCS-AUF Chapter

07/2025 - Present

Treasurer

Angeles City

Administered funds for 3 culminating events, supporting an audience of 300+ students.