PAULO MENDOZA

COMPUTER ENGINEERING

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EDUCATION

2021 - 2025

Technological Institute of the Philippines – Quezon City

- Computer Engineering, elective in Data Science

CAREER OBJECTIVE

Passionate about using my skills in programming, data science, AI, and engineering to help build innovative technologies. I strive to create groundbreaking solutions, from developing new systems and devices to exploring advanced applications of computing.

SKILLS

- Programming Languages: Python, C#, JavaScript, HTML, CSS
- Frameworks & Libraries: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Qiskit, LangChain, LangGraph, Selenium
- Tools & Technologies: React Native, Node.js, Unity, Git, MySQL, Nginx, SAP
- Technical Skills: Multi-Agent Systems, RAG-based AI Chatbots, Computer Vision, Game Development, Digital Twin, IoT Systems, Deep Learning, Artificial Intelligence, Web Automation

ACHIEVEMENTS

- Microsoft Imagine Cup PH 2023 – 3rd Place
- Adviser's Choice Award, CPE Design Project Exhibit
- 4th Best Design Project, by Program Chair, CPE Design Project Exhibit

- References available upon request

PROJECTS

AI Agent Creator 2025

Software Developer

- Built a multi-agent AI chatbot using Streamlit, LangChain, and LangGraph.
- Started with a locally hosted LLM, later integrated ChatGPT API for enhanced performance.
- Designed agents for document ingestion, RAG search, and contextual Q&A.

AlgSat 2024 - 2025

Researcher

- Developed a web app featuring a digital twin of Laguna Lake to visualize estimated water quality parameters and algal bloom coverage.
- Used deep learning models trained on high-resolution satellite images for enhanced spatial and temporal resolution.

Exercise Posture AI App 2024

Researcher

- Built an Exercise Posture AI App in Unity with real-time pose detection using computer vision.
- Provided instant feedback for form correction to help users maintain proper exercise posture.

Quantum Circuit Simulator 2024

Researcher

- Built with Unity frontend connected to a Python backend using Qiskit for real-time quantum circuit simulation.
- Features a sandbox mode where users can design and simulate custom quantum circuits interactively.