

John Paul R. Martinez

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TECHNICAL & RESEARCH PROJECTS

KILATIS | Digital Image Forensics Framework

January 2026 – Present

Thesis Project

- Developed a dual-branch deep learning framework using PyTorch, EfficientNet-B0, and TruFor-inspired Transformers to detect AI-generated and manipulated images.
- Built a cross-platform forensic application using FastAPI, Next.js 16, and Tauri v2, with automated PDF report generation and visual forensic overlays.

Ephnyr AI | Full-Stack Multi-Tenant RAG Platform

August 2026

AI & System Architecture

- Built a full-stack multi-tenant RAG platform using Next.js 14, FastAPI, LangChain, PostgreSQL, pgvector, and 384-dimensional FastEmbed embeddings for document search and retrieval.
- Integrated Groq LLM for fast AI responses with document citations, separate knowledge rooms, temporary session data, and automated storage quotas.

FocusFolio | AI Study Workspace & Document Quiz Generator

July 2026

EdTech & AI Platform

- Built a system using Next.js, FastAPI, LangChain, Pinecone, and Google Gemini that automatically converts uploaded PDF lessons into interactive quizzes and flashcards.
- Created a split-screen study workspace with a built-in PDF reader and an AI tutor that strictly answers questions based on the uploaded document to keep students focused.

CheckMatePH | Political Fact-Checking & Civic Engagement Platform

May 2026

SIKAPTala 2026 Hackathon | Top 10 Finalist (7th Place) | De la Salle University - Dasmariñas

- Developed an AI-driven fact-checking pipeline that evaluates submitted claims against verified public records to combat online misinformation for Filipino voters.

EDUCATION

Manuel S. Enverga University Foundation

May 2027

Bachelor of Science in Computer Science

Lucena City, Philippines

- **Relevant Courses:** Programming Languages, Data Structures & Algorithms, Software Engineering, Database Management Systems, Cloud Computing
- **Honors & Scholarships:** DOST-SEI Scholar, University Scholar, Consistent Dean's Lister

LEADERSHIP EXPERIENCE

MSEUF Association of Multimedia Artists and Technologists

4th Year Representative | BSCS

July 2026 – Present

3rd Year Representative | BSCS

July 2025 – May 2026

- Acted as the primary representative between CS students and executive officers, communicating academic concerns and coordinating department-wide technical activities.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frameworks & Libraries: React, Next.js, FastAPI, Node.js, Tailwind CSS, LangChain

Databases & Backend: Supabase, PostgreSQL, RESTful APIs

Cloud & Deployment: Microsoft Azure Fundamentals, Vercel

Developer Tools: Git, GitHub, Postman, CI/CD basics