Jed Lawrence Engbino

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Education

De La Salle – College of Saint Benilde **Taft, Manila**
Bachelor of Science in Information Systems | Dean's List *Sept 2024 – Expected Dec 2027*
International Philippine School in Jeddah – With High Honors **Jeddah, Saudi Arabia**

Projects

Revora – Verified Onboarding for a Circular Material Exchange **Database Management Course Project**
Lead Database & Backend Developer *May – Aug 2026*

- Envisioned as a platform connecting waste generators with upcyclers; built the verified onboarding it depends on (registration, admin approval, user dashboard). The exchange itself was planned for a later phase.
- Designed a normalized SQL Server database (15 tables, 6 reporting views) with a Region–Province–City–Barangay hierarchy and indexes for search.
- Wrote T-SQL stored procedures for registration, admin approval/rejection and profile-edit review, plus triggers for audit logging and password hashing.
- Secured data with least-privilege SQL logins (admin, staff, API) and Dynamic Data Masking on email, phone and government ID fields.
- Built the Node.js/Express REST API (authentication, registration, admin review, search, profile editing) and idempotent setup scripts to rebuild the system from scratch.

Barangay Management System **Barangay 43, Zone 06, Pasay City**
Backend Developer *May – Aug 2026*

- Built official certificate templates and PDF report generation for barangay resident documents.
- Implemented household succession rules so records stay correct when the head of a household changes.
- Fixed security issues and the audit trail that tracks changes to resident records.

Supplier & Inventory Management System **Enterprise Programming Course Project**
Full-Stack Developer *May – Aug 2025*

- Built an ASP.NET Core 8 MVC app for managing suppliers, products and purchase orders, with CRUD backed by SQL Server via Entity Framework Core (code-first migrations).
- Implemented registration and sign-in with ASP.NET Identity and restricted data controllers to authenticated users.
- Structured a layered solution (web app, data model, repository projects) using the generic repository pattern, dependency injection and AutoMapper.

VerifAI – AI Research Assistant for Google Docs **HackFest GDG Loyola 2026 | ADMU**
Lead Developer – Backend & AI Integration *March 2026*

- Built the Python/Flask backend for an AI assistant that finds sources and verifies claims for Review of Related Literature writing, using Google Gemini 2.5 Flash.
- Routed all Gemini calls through a server-side Flask proxy so the API key is never exposed to the browser.
- Reduced fabricated citations by checking every AI-suggested paper against the CrossRef API in parallel (ThreadPoolExecutor), replacing AI-generated titles and authors with verified DOI metadata.

WeatherWatch – Flood Monitoring App **WarFrames Hackathon 2026 | UP Los Baños**
UI/UX Designer *February 2026*

- Designed a high-fidelity Figma prototype for a crisis-response flood monitoring web app, prioritizing fast access to critical information during emergencies.

Experience

Bodega Kafe **Tambo, Parañaque**
Junior Barista *Oct 2024*

- Prepared espresso-based drinks to café recipes and standards while keeping a clean, food-safe workstation.
- Took orders, handled POS transactions and coordinated with senior baristas during peak hours.

Skills & Interests

Programming: C#, TypeScript, JavaScript, Python, T-SQL, Java, HTML/CSS

Frameworks & Tools: ASP.NET Core MVC, Entity Framework Core, Node.js/Express, Flask, Django REST Framework, React, Next.js, Tailwind CSS, Bootstrap, SQL Server, MySQL, xUnit, Testcontainers, Playwright, Docker, GitHub Actions, Git/GitHub, Vercel, Figma, Visual Studio, VS Code, Google Gemini API, Unity, Godot

Concepts: Relational database design, stored procedures & triggers, database security, REST APIs, repository pattern, dependency injection, LLM integration

Languages: English, Tagalog **Interests:** Coffee brewing, cooking, fitness