

JEROME AVECILLA

Full-Stack Web & AI Systems Developer

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SUMMARY

Independent Full-Stack Web Developer specializing in Laravel, Vue/React, and PostgreSQL. Focused on integrating AI, LLMs, and Agent systems into scalable digital solutions. Proven track record in delivering commissioned web apps, automating workflows, and optimizing system architecture. Seeking to build forward-thinking, AI-powered applications.

WORK EXPERIENCE

IT Assistant, Golden Minds Colleges Inc.

May 2022- Jan 2025

- **Solo Project: Campus Online Voting System**
 - **Architected and deployed** an end-to-end digital voting solution to replace legacy manual processes, facilitating high-traffic student elections and major campus events.
 - **Tech Stack:** Laravel (Backend), MySQL (Database), jQuery, Bootstrap, and Chart.js (Frontend).
 - **Key Impact:** Successfully processed 5,000+ votes with zero downtime; optimized database indexing and query refactoring to achieve a 30% reduction in response times. Integrated GCash QR and Google ReCAPTCHA to ensure secure transactions and fraud prevention, resulting in a 40% increase in total voter turnout.
 - **Solo Project: Institutional Web Ecosystem (Official Website)**
 - **Led the full-scale migration** of the college's legacy site from .com domain to .edu.ph, a modern Laravel and Vue.js architecture, centralizing academic resources and institutional data for students and staff.
 - **Tech Stack:** Laravel (Backend), Vue.js (Frontend), MySQL, and Bootstrap.
 - **Key Impact:** Reduced administrative inquiries by 35% through the implementation of a dynamic Resource Hub and Admin Dashboard. Leveraged lazy loading and frontend optimization to decrease average page load times by 25%, sustaining 6,000+ monthly page views.
 - **Team Project: Student Information Management System (SIMS) Portal**
 - **Redesigned the UI/UX architecture** for the entire Senior High School portal, migrating a legacy PHP codebase to a modern **Vue.js and Tailwind CSS** frontend for enhanced responsiveness and accessibility.
 - **Solo Feature: Automated Academic Scheduling & Payroll Integration**
Engineered a custom scheduling engine with real-time conflict detection, directly synced with a payroll module to automate wage calculations based on active teaching hours.
 - **Key Impact:** Reduced administrative processing time by **40%** by eliminating manual grade encoding and payroll cross-referencing; implemented **Docker** to ensure consistent development-to-production deployment.
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EDUCATION

Bachelor of Science in Information Technology

Jul 2023 - Aug 2027

Bulacan State University - Main Campus

- Specialized in Web and Mobile Application Development (WMAD)

Technical Vocational Livelihood in Information and Communication Technology

Aug 2021- Jun 2023

Golden Minds Colleges of Sta.Maria Bulacan Inc.

- Capstone Project on "Web-Based Inventory Management System for HRM Tools and Equipment"
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TECHNICAL SKILLS

AI & Integrations: RAG, Fine-tuning, MCP, REST API, LLM, Agentic Workflow

Front-End: HTML, CSS, SCSS, JavaScript, TypeScript, Vue.js, React JS, Bootstrap, Tailwind CSS

Back-End: Laravel, MySQL, PostgreSQL, Firebase, Supabase, Python

DevOps & Cloud: Git, Github, Git Actions, Docker, AWS, Google Cloud, Digital Ocean, Vercel, Cloudflare

CERTIFICATIONS, AWARDS & ACHIEVEMENTS

Salesforce Supported Virtual Internship Program 2025 (Philippines).

Hackathon Champion – BulSU 13th IT Congress: Led the winning team in a competitive coding and innovation challenge.

Best Capstone of the Year – Research and Innovation: Recognized for developing a "Web-Based Inventory Management System". The System adopted by school.