

Zach Estrella

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WORK EXPERIENCE

Ziaplex Inc. | Pasig City

Aug 2022 - Oct 2025

Web Developer

Tech stack: PHP (Laravel), JavaScript, MySQL

- Led end-to-end development of 5+ Laravel-based web and back-office systems and contributed to 10+ internal enterprise applications across finance, logistics, and healthcare, supporting 100+ daily users.
- Designed and implemented RESTful APIs and system integrations to enable cross-platform communication, improving data flow efficiency and reducing manual reconciliation by up to 40%.
- Integrated 20+ internal services and proprietary APIs, including webhook-based payment system integrations, improving transaction reliability and reducing operational delays.
- Refactored and stabilized legacy systems by resolving recurring defects and improving architecture, reducing user-reported issues by 30% and increasing system stability.
- Optimized backend performance through MySQL query tuning, Role-Based Access Control (RBAC) implementation, and secure authentication systems, while collaborating with cross-functional teams to deliver scalable solutions across the full Software Development Life Cycle (SDLC).

SKILLS

Languages: PHP, Java, Python, JavaScript, TypeScript

Backend Development: REST API, Laravel, NextJS

Frontend Development: HTML5, CSS3, Tailwind, ReactJS, SEO Optimization

Databases & Caching: MySQL, Redis, Supabase

Tools & Platforms: Git (GitHub, Bitbucket), Postman, JIRA

AI & Integrations: LLM Integration (Google Gemini API), Prompt Engineering for LLM-based systems

EDUCATION

De - La Salle College of Saint Benilde

Oct 2022

Bachelor of Science in Information Systems

PROJECTS

1. Chatbot

Tech stack: Tailwind, TypeScript, NextJS, LLM integration, Retrieval Augmented Generation (RAG)

- Developed a Retrieval-Augmented Generation (RAG)-inspired chatbot system using a custom-built knowledge base for foundational NLP learning and information retrieval.
- Implemented text embedding generation using Google Gemini Embeddings API, with manually structured and indexed document chunks.
- Built a semantic search and ranking pipeline using cosine similarity and type-aware matching to retrieve the most relevant context from stored embeddings.
- Engineered an LLM-powered response generation pipeline (Google Gemini) by injecting retrieved context into prompts to produce accurate, context-grounded answers.

2. Resume Analyzer

Tech stack: Tailwind, TypeScript, NextJS, AI and LLM integration

- Developed an AI-powered resume optimization platform that helps users tailor resumes for specific job applications using LLM-based feedback and career-focused analysis.
- Implemented resume parsing and job description analysis pipelines to extract key information and generate keyword-matching insights and improvement suggestions.
- Built an interactive AI chat system to support iterative resume refinement, providing contextual feedback and career guidance using LLMs.
- Generated downloadable, ATS-friendly PDF resumes with dynamically structured content and automated formatting for improved readability and recruiter alignment.

3. Sublime Cafe

Tech stack: Tailwind, TypeScript, NextJS, Supabase

- Developed a production-ready Next.js web application for a cafe business, implementing SSR/SSG and SEO-optimized architecture to improve search visibility and performance.
- Implemented dynamic metadata generation, OpenGraph tags, and structured routing, enhancing SEO indexing and social media sharing previews.
- Built a CMS-based admin dashboard for managing menu items, products, and website content, integrated with Supabase (BaaS) for backend services and authentication.
- Utilized Supabase Auth, database, and storage services to enable secure authentication, role-based access control, and scalable content management workflows.