

JOSEPH EMANUEL O. BATALLER

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PROFESSIONAL SUMMARY

Full Stack Developer experienced in building and maintaining frontend and backend applications, RESTful APIs, secure authentication, backend integrations, real-time communication, and production deployments. Skilled in Python, JavaScript, TypeScript, React, Next.js, Django, FastAPI, PostgreSQL, MySQL, and Git, with experience improving application performance and supporting operations-driven systems. Experienced working in fast-paced development environments with a solid understanding of the Software Development Life Cycle (SDLC), from requirements gathering and development to testing, deployment, and maintenance.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, HTML, CSS

Frontend: React, Next.js

Backend: Django, FastAPI

Databases: PostgreSQL, MySQL, MongoDB

Tools: Git, Postman, Selenium

AI-Assisted Development: ChatGPT, Codex, GitHub Copilot

PROFESSIONAL EXPERIENCE

Full Stack Developer (Freelance) — Krispy Papi

March 2025 – Present

- Collaborate with business owners and backend developer to gather and clarify requirements, identify operational pain points, communicate technical constraints, and translate business needs into clear technical specifications, acceptance criteria, and practical software solutions.
- Develop responsive and accessible frontend interfaces using Next.js and TypeScript, applying semantic HTML, keyboard-friendly interactions, and WCAG accessibility principles.
- Implement secure JWT-based authentication and role-based access control (RBAC) across protected application features.
- Build reusable UI components, layouts, and API service layers to improve maintainability and accelerate feature development.
- Debug frontend, backend, and integration issues by analyzing errors, tracing application behavior, and comparing expected results against actual outcomes, including when reviewing existing code written by other developers.
- Implement caching with TanStack Query to improve application performance and reliability.
- Develop real-time ERP messaging with Socket.IO, enabling centralized communication across users.
- Build a Python scraper to extract POS data and automate processing despite the lack of an API.
- Develop QR code validation to verify the authenticity of Krispy Papi supply orders.

- Deploy and maintain applications on DigitalOcean, managing domains, subdomains, DNS configuration, production releases, and Git-based deployment workflows while applying CI/CD practices.
- Participate in code reviews and technical discussions to identify defects, improve maintainability, and ensure changes align with established application requirements.
- Use AI coding assistants and agentic development workflows, including ChatGPT, Codex, and GitHub Copilot, for implementation planning, debugging, code analysis, documentation, and repetitive development tasks while manually validating generated code for correctness and compatibility with the existing architecture.
- Incorporate stakeholder feedback throughout the development process, refining features and implementations based on business requirements, testing results, and review findings.

Full Stack Developer — Cavite State University - Indang Campus

February 2026 – May 2026

- Developed reusable Next.js components with JWT authentication and RBAC to support scalable application architecture and secure access control.
- Implement a NoSQL database for alumni questionnaires, supporting multiple question types and flexible survey structures.
- Integrated NestJS and Spring Boot through server-to-server communication to provide secure access to protected backend services.

Full Stack Developer — PESO Mendez — Client Capstone Project

August 2025 – January 2026

- Developed cross-platform mobile features using Flutter to improve application accessibility across devices.
- Implemented RESTful APIs with Express.js and MySQL for secure and structured application data processing.
- Built a resume-generation module that converts user profile data into structured resumes.
- Implemented WebSocket-based real-time messaging for instant communication between application users.
- Integrated Firebase Cloud Messaging (FCM) for real-time push notifications and user activity updates.

EDUCATION

Bachelor of Science in Information Technology — Cavite State University

September 2023 – August 2026

- Magna Cum Laude

CERTIFICATIONS

- **100 Days of Code™: The Complete Python Pro Bootcamp** — Udemy
- **Complete AI Engineer Training: Python, NLP, Transformers, LLMs, LangChain, Hugging Face, APIs** — Udemy