

JOSEPH RYAN P. PEÑA

0907-052-3221 | jppena@up.edu.ph | Los Baños, Laguna

EDUCATION

Bachelor of Science in Computer Science

September 2021 – July 2025

University of the Philippines - Los Baños

- Cum Laude – **1.52 GWA**
- DOST JLSS Scholarship Recipient

WORK EXPERIENCE

Junior Full Stack Developer

August 2025 – Present

Offshorly Ltd.

Remote

- Delivered 20+ high-fidelity frontend pages and components in TypeScript/React based on Figma designs, ensuring pixel-perfect implementation and consistent user experience across the application.
- Collaborate in Git-based workflow with PR reviews across dev/staging/prod environments, ensuring zero merge conflicts and maintaining code quality through peer review process.
- Implemented Firebase Authentication for secure user authentication and integrated CASL for role-based access control (RBAC), managing permissions for 3+ user roles across the application.
- Leveraged Claude Code in Plan Mode for AI-assisted development, architecting solutions before implementation and adept at utilizing different models (Opus, Sonnet) while retaining ownership of the bulk of specifications, code review, and quality checks.
- Integrated the Bullhorn CRM API alongside native web iFrames to query and dynamically update real-time candidate, company, and job records, significantly optimizing recruitment data matching.
- Configured DBOS (Database-Backed Operating System) asynchronous workflows for background task queues, and architected a custom data reports module that expanded internal platform data visibility for corporate stakeholders.
- Created reports module to reflect numbers of platform for increased visibility helped the company

Software Engineering Intern

June 2024 – August 2024

Argon Software Development Services

Remote

- Integrated Xendit payment gateway with Laravel Livewire, implementing webhook-driven redirects based on product type and automated failure handling with database updates
- Built a Livewire voucher system that converts duplicate enrollments into reusable vouchers, utilizing schedule-based logic.

PROJECTS

AcadBridge | MongoDB, ExpressJS, ReactJS, NodeJS, ReCharts, Socket.io, Jest, Supertest

- Built academic record management system using MERN stack with grade tracking, performance visualization (ReCharts), and real-time messaging (Socket.io)
- Implemented JWT authentication, RBAC, NoSQL injection prevention, and input validation middleware, achieving 100% pass rate across 5 security test categories (Jest/Supertest)

TeachOS | React, FastAPI, Claude Code, Postgresql, NeonDB, SQLAlchemy, Firebase Auth, Alembic

- Engineered a provider-agnostic lesson-plan generation layer over raw httpx that dispatches to both Google Gemini 2.5 Flash and xAI Grok 3 without vendor SDKs, reducing external dependency surface by 2 libraries while enabling teachers to supply their own API key across either provider.
- Designed a structured-prompt + post-validation pipeline that enforces the Philippine DepEd MATATAG/ILAW lesson-plan format by overriding 5+ deterministic fields (header, signatories, session labels) server-side after AI generation, making format non-compliance impossible regardless of model output drift.
- Built a fully async REST API across 9 endpoints using FastAPI, SQLAlchemy 2.0 async, and asyncpg, eliminating all blocking I/O in route handlers and enabling concurrent AI provider calls and database writes without thread contention.
- Delivered a type-safe React 19 + TypeScript frontend across 113 source files with TanStack Query v5 for server-state sync, Zod for runtime schema validation, and camelCase ↔ snake_case alias generation at the API boundary — eliminating an entire category of field-name mismatch bugs.
- Integrated Firebase Admin SDK for stateless Bearer token verification on every protected route, delegating credential storage entirely to Firebase and reducing backend auth attack surface to a single JWT decode dependency (PyJWT).

LEADERSHIP EXPERIENCE

Career Orientation Committee Head

September 2023 - February 2024

UPLB Computer Science Society, Los Baños, Laguna

- Organized and coordinated the UPLB COSS 40th CS Week Career Orientation event, ensuring smooth execution.
- Managed committee tasks, venue arrangements, and scheduling, facilitating efficient event planning.
- Coordinated with speakers to ensure timely and engaging presentations for the event.

EXTRACURRICULAR ACTIVITIES

C(old) (St)art 2024 Hackathon | 1st Runner Up

- Co-developed a prototype application entitled “Flowture”, an AI-based dance choreography creation and social platform application.
- Won the Coding Wizardry Award for showcasing the best frontend.
- Won the Showstopper Presentation for the most engaging and effective delivery of the prototype application.

SKILLS

Software Development

- *Programming Languages: Python, JavaScript, Typescript, Java*
- *Web Development: React, HTML5, CSS3, Tailwindcss(Frontend); Node.js, Express.js, PHP, Laravel (Backend), FastAPI*
- *Mobile Development: Flutter*
- *IDE: Cursor, VS Code*
- *AI: Claude Code, Github Copilot*
- *Databases: MongoDB, PostgreSQL, MariaDB, Firebase*

Version Control & Project Management

- *Version Control: Git, GitHub*
- *Project Management: Jira, Trello, Github Issues, ClickUP, Zoho Projects*
- *Development Methodologies: Waterfall, Agile*