

Zen Andrei Obrero

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[Portfolio](#) | [GitHub](#)

PROFESSIONAL SUMMARY

AI-augmented fullstack developer specializing in frontend engineering with React, TypeScript, and the MERN stack. Builds scalable, multi-tenant enterprise applications — from UI architecture to backend data modeling — with a structured AI-assisted workflow using Claude Opus, Codex, and Google Stitch (Gemini Pro 3) while maintaining full code ownership and engineering rigor. Currently shipping 6+ production platforms at Uzaro Solutions spanning IoT, Education, Hotel Management, and ERP domains.

EDUCATION

Biliran Province State University

Bachelor of Science in Computer Science / With Honors

Naval, Biliran

Graduated May 2024

- Algolympics Champion — 1st Place, campus-wide algorithm programming contest (2nd Year)
- Relevant Coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Object-Oriented Programming

WORK EXPERIENCE

Uzaro Solutions Technology Inc.

Technology Developer

Quezon City

Nov 2024 – Present

- Developed production-grade frontend interfaces and reusable component libraries using React and TypeScript, establishing shared design patterns and type-safe contracts adopted across 8+ company-wide projects
- Designed backend data models (MongoDB/Prisma) that unified frontend–backend contracts, conducted code reviews on team PRs, and managed CI/CD pipelines via GitHub Actions with Firebase deployment — authoring unit and integration tests in Jest that reduced post-release bug reports by ~25%
- Drove sprint delivery across 6+ concurrent platform builds (IoT, LMS, HMS, HRIS, Inventory, Order Management) in an Agile environment using GitHub Projects and a custom-built PMS, accelerating delivery velocity through AI-assisted prototyping and scaffolding (Claude Opus, Codex, Gemini Pro 3)
- Integrated smart door locks, switch/outlet relays, and IoT gateways via REST APIs into a centralized React dashboard, enabling real-time device control and monitoring for 50+ connected endpoints with sub-500ms response latency

IPSolutions Inc.

IT Intern

Pasig City

Mar 2024 – May 2024

- Designed and delivered 3 responsive client-facing landing pages including the company's main website using HTML/CSS and Bootstrap, each passing cross-browser QA on first review within the 3-month internship
- Collaborated with the development team to implement features following SDLC best practices, gaining foundational experience in code versioning with Git and team-based delivery workflows

Jun – Oct 2024: Dedicated 8+ hours daily to self-study in TypeScript, React, Node.js, and MongoDB while job hunting — bridging from internship to professional fullstack role.

PROJECT EXPERIENCE

Shared Stack: React, TypeScript, Node.js, Express, MongoDB, Prisma ORM, Zod, TanStack Query, Zustand, JWT, Tailwind CSS

ALMA (Alternative Learning Management App)

- Architected a multi-tenant LMS serving 3 organizational tenants with role-based access for admins, instructors, and 200+ student accounts, implementing tenant-isolated data schemas and JWT-based authentication
- Built an assessment engine with automatic quiz scoring, grade computation, and analytics dashboards tracking learner performance across courses — reducing manual grading workload for instructors
- Developed attendance tracking and gradebook modules used by 15+ instructors across 40+ classes, enabling real-time class record management and automated academic report generation per tenant

HMS Reservation System

- Built a multi-tenant hotel management system enabling organizations to manage rooms, pricing, users, and reservations with tenant-isolated data architecture
- Designed and implemented core booking functionality including room type configuration, dynamic pricing rules, and full reservation lifecycle management from search to checkout

ERP Platform Suite (Uzaro Solutions)

Architected and developed interconnected ERP modules as part of a multi-tenant enterprise platform:

- **HRIS** — Built employee lifecycle management covering payroll, time management, onboarding, attendance, and personnel records — the most data-intensive module, handling 6,000+ employee records with role-scoped visibility across tenants
- **Inventory Management (GS1-Standard)** — Developed a GS1-compliant inventory system with standardized barcode/SKU identification, real-time stock tracking, and low-stock alerting — reducing manual stock audit time and enabling automated procurement triggers
- **Order Management / E-Commerce** — Built the employee partnership e-commerce platform handling product catalogs, cart workflows, and order lifecycle tracking; the most user-facing module with buyer, vendor, and admin role separation
- Additional modules: Project Management System, Supply Chain Management (integrated with Inventory and Order systems for end-to-end procurement-to-fulfillment)

TECHNICAL SKILLS

Frontend: React, TypeScript, Next.js, Tailwind CSS, Bootstrap, HTML/CSS, Zustand, TanStack Query, Socket.io

Backend: Node.js, Express, REST API Design, JWT Authentication, Zod

Databases & ORM: MongoDB, MySQL, Prisma ORM

Testing: Jest, Playwright

DevOps & Deployment: Git, GitHub, GitHub Actions (CI/CD), Firebase Hosting, Docker

Languages: TypeScript, JavaScript, Python, Java, C++, PHP

Project Management: GitHub Projects, Custom PMS Tool, Agile/Scrum

AI-Augmented Workflow: Claude Opus 4.6 (architecture, guidelines, prompt engineering), Codex (backend logic, code generation), Google Stitch / Gemini Pro 3 (UI/UX prototyping)

Domain Experience: IoT Smart Devices, Education/LMS, Hotel Management, ERP (HRIS, Inventory/GS1, Order Management, Supply Chain, Project Management)