

Huynh Tuan Anh

Fullstack Software Developer

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SUMMARY

Fullstack Developer with hands-on experience building internal systems (ERP, HRM) from scratch with complex business logic. Core technologies include NestJS and ReactJS. Skilled in system design, API integration (Sapo, Facebook, Tiktok, Shopee), and server deployment using Cloudflared, Docker, and Nginx. Experienced in integrating complex modules and directly applying Gemini API to optimize business workflows.

TECHNICAL SKILLS

Programming Languages	Javascript & Typescript, Java, PHP, SQL
Frameworks/Platforms	ExpressJS, NestJS, ReactJS, NodeJS, Laravel
	ShadcnUI, Prisma, Socket IO
	Shopee & Facebook APIs, Tiktok API, Sapo API
Database	PostgreSQL, MySQL, MongoDB, S3 MinIO, Redis
DevOps	Docker, CI/CD, Nginx, Git
Cloud	AWS, Cloudflared

WORK EXPERIENCE

Jewelry Retail & E-commerce Business 03/2025 - Present

Fullstack Developer / Project Leader

Project 1: Internal Omnichannel ERP & HRM System

- **Team Size:** 2 members (1 Lead/Dev, 1 Dev)
- **Description:** An internal Omnichannel ERP & HRM system designed to centralize operational workflows, manage human resources, automate the supply chain, and streamline data reconciliation for a jewelry retail enterprise.
- **Technologies:**
 - Backend/Frontend: NestJS, ReactJS, TypeScript, NodeJS
 - API Integration: Google API, Sapo API, Tiktok API, Shopee API, Facebook Graph API
 - Deployment: Docker, Nginx, Cloudflared, CI/CD
- **Responsibilities:**
 - **System Design & Project Leadership:** Received direct requirements from the Director to develop enterprise functionalities. Served as the core engineer from the project's inception; directly designed the system architecture, selected the tech stack, and defined the project's strategic direction. Oversaw 100% of the project to ensure overall quality, while delegating and managing specific tasks for another team member (covering ~35% of the project workload).
 - **Core Development & Automation:** Built a high-performance, real-time synchronization service for 10,000+ SKUs across 5 different platforms. Developed automated reconciliation modules for COD and GMV, incorporating spreadsheet data extraction and analysis to cross-check business metrics; successfully reduced manual audit time by 90% and recovered lost revenue.
 - **AI Integration & HR Management (HRM):** Architected the automated HRM system for 20+ employees. Collaborated with a team member to integrate their AI Facial Recognition module into the system for attendance tracking, eliminating manual payroll errors. Directly leveraged Gemini AI to automate order fault categorization and process product imagery.

- **Infrastructure & Deployment:** Set up and deployed the entire system on the company's on-premise server. Configured Nginx as a reverse proxy and utilized a Cloudflared tunnel for public hosting, ensuring secure and stable external access to the system.

Project 2: Headless E-commerce Web Application (In Progress)

- **Timeline:** Present (Expected Completion: 07/2026)
- **Team Size:** 2 members (1 Backend & Integration, 1 Frontend Dev)
- **Description:** A modern Headless E-commerce storefront utilizing a decoupled architecture to optimize performance, replacing the default Sapo theme with a custom NextJS interface.
- **Technologies:**
 - NextJS, ReactJS, TailwindCSS, REST API, Internal NestJS Backend, Sapo API.
- **Responsibilities:**
 - **System Integration & API Design:** Architected and developed the necessary API endpoints within the internal system to act as a centralized data hub bridging the backend and the storefront.
 - **Data Fetching & State Management:** Successfully connected the NextJS frontend to the internal APIs, enabling seamless, real-time retrieval of product catalogs and synchronization of order data directly from Sapo.
 - **UI/UX Development Collaboration:** Co-developed the frontend user interface (~30% contribution), working closely with the frontend developer to ensure responsive design and consistent data rendering across the storefront.

PERSONAL PROJECT

Shopify Warehouse Bin Location Management

12/2025 - 04/2026

Fullstack Developer

- **Description:** A fulwarehouse management system integrated with Shopify (Test Environment) to precisely track product storage across a 5-level hierarchical bin model, optimizing stock-in/out workflows and pick suggestions.
- **Technologies:**
 - NestJS, React 19, TypeScript, PostgreSQL, Prisma, Redis, BullMQ, Shopify API & Webhooks.
- **Responsibilities:**
 - **System Architecture & Database:** Architected a monorepo full-stack application and designed a complex PostgreSQL schema to manage real-time inventory and a 5-level bin location hierarchy (Zone → Aisle → Rack → Level → Bin).
 - **Asynchronous Webhook Processing:** Built a robust, real-time data pipeline using BullMQ and Redis to handle Shopify webhooks for product and order synchronization, ensuring automatic retries (exponential backoff) and timeout prevention.
 - **Inventory Automation:** Integrated camera-based barcode scanning (html5-qrcode) to streamline stock-in/out operations and developed an algorithm to auto-generate pick suggestions mapped from draft orders.
 - **Security Implementation:** Engineered a highly secure JWT authentication system featuring access/refresh token rotation, RSA key-pair generation per device, and token reuse detection to prevent unauthorized access.

ACHIEVEMENTS

Competitor at Vietnam National Skills Competition – IT Network Systems Administration

2024