

LE NGOC TAN

Full-Stack Developer Intern

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SUMMARY

Final-year Information Technology student, expected to graduate in May 2027, with freelance experience building and deploying full-stack web applications. Main technologies include Next.js, TypeScript, Node.js, MongoDB, Redis, and Docker, with practical experience in authentication, authorization, caching, real-time updates, and database transactions.

EDUCATION

University of Technology and Education (UTE)

Sep 2023 – Expected May 2027

Information Technology

- GPA: **3.88/4.0**; received merit scholarships for two semesters.
- **English:** Able to read technical documentation and communicate in basic workplace situations.

WORK EXPERIENCE

Freelance Web Developer

Oct 2025 – Present

Independent

- Built and deployed full-stack applications for retail, inventory, online payments, and digital goods.
- Used Git and GitHub for feature branches, pull requests, code reviews, and conflict resolution; set up automated VPS deployments with Docker, Nginx, and GitHub Actions.

KEY PROJECTS

SmartPOS – Multi-Branch POS & Inventory System

Mar 2026 – Apr 2026

Full-Stack Developer | 3-member Team

- Developed sales, inventory, receipt, user management, and reporting features for a multi-branch POS system **deployed for a business pilot**; integrated **PayOS QR payments** and real-time payment updates through **Socket.IO**.
- Implemented **JWT authentication and RBAC** across routes and services, limiting users to data from their assigned branch.
- Built an Excel import flow with row validation and barcode matching; processed MongoDB `bulkWrite` operations in batches of 500 for files of up to **3,000 rows**.
- Detected barcode scanner input using a **50 ms keystroke threshold** and created a sequential print queue to prevent duplicate or overlapping receipt prints.

Technologies: Next.js, React, TypeScript, Node.js, Express.js, MongoDB/Mongoose, Socket.IO, PayOS, Docker, Nginx, GitHub Actions.

Demo & GitHub: smartpos.ngoctanz.dev | github.com/ngoctanz/minimart-manager

ShopAcc – Digital Goods Commerce Platform

Dec 2025 – Jan 2026

Full-Stack Developer

- Built responsive storefront and admin pages with Cloudinary image delivery, **PayOS QR checkout**, and real-time payment updates through **Socket.IO**.
- Improved catalog performance with ISR, **Redis caching** using a 120-second TTL and database fallback, and compound MongoDB indexes. Added technical SEO with JSON-LD, sitemap, robots.txt, and canonical URLs.
- Protected account credentials by excluding them from normal database queries and exposing them only through dedicated endpoints with owner/admin authorization and rate limits.
- Used **MongoDB transactions** and conditional atomic updates to prevent overselling and overspending. In **k6 tests**, exactly **1 of 50 concurrent buyers** purchased the single available item, and exactly **50 of 150 wallet requests** succeeded when the balance covered 50 purchases.

Technologies: Next.js, React, TypeScript, Tailwind CSS, Node.js, Express.js, MongoDB/Mongoose, Redis, Socket.IO, PayOS, Cloudinary, Docker, Nginx, GitHub Actions, k6.

Demo & GitHub: shopacc.ngoctanz.dev | github.com/ngoctanz/game-account-marketplace (non-commercial demo)

TECHNICAL SKILLS

Frontend: TypeScript, JavaScript, HTML/CSS, React, Next.js, Tailwind CSS, Redux Toolkit.

Backend & Data: C#, ASP.NET Core, Node.js, Express.js, REST APIs, WebSockets, MongoDB (Mongoose), PostgreSQL, Redis.

DevOps & Tools: Docker, Nginx, CI/CD (GitHub Actions), Linux, AWS (EC2, S3, IAM), Postman.

Security & Workflow: JWT, OAuth, RBAC, rate limiting, Git/GitHub; AI-assisted development for debugging and documentation.