NGUYEN MANH PHU QUY

Software Engineer | Full-Stack Developer

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Profile

Early-career full-stack software engineer working with TypeScript, React, and NestJS, with frontend internship experience at TMA Solutions and backend training at FPT Software. Experience spans API design, relational data modeling, React interfaces, authentication, and transactional business logic. Independently develops e-commerce and recipe-planning applications, with hands-on work on payment integration, duplicate webhook handling, and connected inventory workflows.

Technical Skills

Languages	TypeScript, JavaScript (ES6+), SQL, Python, C++
Frontend	React, Next.js, HTML5, CSS3, SCSS, Tailwind CSS, React Bootstrap
Backend	Node.js, NestJS, Express.js, REST APIs, gRPC, Kafka, JWT, RBAC
Databases	PostgreSQL, MySQL, Prisma, schema design, migrations
Testing	Jest, Playwright, React Testing Library
Tools	Docker, GitHub Actions, GitLab CI/CD, Git, Postman, CodeQL

Experience

FPT Software *Fresher Node.js Developer* Apr 2026 - Oct 2026

- Collaborated in a three-developer Scrum team during a Node.js training program, contributing to a coffee-franchise supply-chain mock project through NestJS API design, PostgreSQL/Prisma modeling, and related React interfaces.
- Implemented request validation and transactional business logic for supply-chain workflows, connected services through gRPC and Kafka, and used Jest, Docker, and GitLab CI/CD during development.

CT Group Hi-Tech *Technology & Product Division Staff* Sep 2025 - Feb 2026

- Prepared technical documentation on UAV use cases for seaports, covering port security and maritime surveillance, asset condition monitoring, and LiDAR mapping for digital-twin applications.

TMA Solutions *Front-end Developer Intern* Sep 2023 - Dec 2023

- Built and maintained responsive React interfaces and refined existing application pages for different screen sizes. Resolved frontend defects and contributed to page-load performance and accessibility improvements during the internship.

Projects

Digital-E System | Full-Stack E-commerce Platform Jun 2024 - Present

Personal project Demo | GitHub

Stack: React, TypeScript, NestJS, MySQL, Prisma, Tailwind CSS, Firebase Auth, Docker, GitHub Actions

- Independently maintain an e-commerce platform covering product discovery, checkout, inventory, and order administration.
- Integrated PayOS and cash-on-delivery checkout with webhook verification and inventory reservations.
- Resolved duplicate payment webhook processing using persisted event claims and transactional row locking.

eCoffee | Coffee Franchise Supply Chain Platform Jun 2026 - Aug 2026

FPT Software mock project Demo

Stack: React, TypeScript, NestJS, PostgreSQL, Prisma, gRPC, Kafka, Redis, Docker, Nx, GitLab CI/CD

- Developed 4 services (Warehouse, Inventory, Supplier, and Franchise) within an existing 13-service architecture.
- Designed APIs and 4 Prisma schemas, built related React interfaces, and implemented gRPC communication and Kafka event workflows across the four services.

Food Recipes | Recipe and Meal Planning Platform Sep 2023 - Present

Personal project Demo | GitHub

Stack: React, TypeScript, NestJS, PostgreSQL, Prisma, Redux Toolkit, TanStack Query, Docker

- Built 3 connected workflows for meal planning, shopping lists, and pantry management using React and TanStack Query.
- Developed a backend with a 41-model PostgreSQL schema and NestJS REST APIs with JWT authentication, refresh-token rotation, and role-based authorization.

Education

Ho Chi Minh City University of Technology (HCMUT) Ho Chi Minh City, Vietnam

M.Sc. in Computer Science *(in progress)* Sep 2026 - Present

B.Sc. in Computer Science, English Program Sep 2020 - Nov 2024

Certifications

IELTS 7.0 (Apr 2026)

Meta Professional Certificates: Front-End, Back-End, and Full Stack (2026)