

Duong Gia Bao

Software Engineer | Ho Chi Minh City

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PROFILE

Third-year Computer Science student at Ho Chi Minh City University of Technology with hands-on experience building and deploying full-stack web applications. Seeking a Software Engineering role to contribute strong engineering fundamentals, end-to-end ownership, and rapid execution.

EDUCATION

Ho Chi Minh City University of Technology - VNUHCM

Sep 2023 - June 2027

Bachelor of Engineering in Computer Science

CGPA: 8.51/10.0

PROJECTS

NestCommerce | Live demo: nestcommerce.ticklab.site

- Architected and delivered a production-ready e-commerce backend using **NestJS** and **PostgreSQL**.
- Delivering secure user authentication through **Google OAuth** and **TOTP-based two-factor** authentication.
- Optimized backend performance through **Redis** caching and **BullMQ** background job processing.
- Engineered scalable file storage and notification workflows by integrating **AWS S3** for media handling and **Resend** for transactional email delivery.
- Built event-driven payment processing using **SePay** webhooks, real-time payment confirmation via **Socket.IO**, and automated order status synchronization.
- Integrated both **REST** and **GraphQL** service layers, with Swagger/OpenAPI and GraphQL schema documentation.

QRMeal | Live demo: qrmeal.ticklab.site

- Engineered a contactless dining platform using **Next.js**, **Tailwind CSS**, and **Shadcn/ui**, delivering a responsive interface with full **dark/light theme** support.
- Enabled bilingual (English/Vietnamese) user experience by integrating **Next.js i18n** for seamless localization.
- Integrated with a high-performance **Fastify** backend for API handling, authentication, and database communication.
- Architected secure **JWT-based authentication** and **role-based access control** for customers, staff, and managers.
- Orchestrated application state management using **TanStack Query** for server state and **Zustand** for client state handling.

Trellify | Live demo: trellify.ticklab.site

- Developed a full-stack project management platform using **React**, **MUI**, **Redux**, **Express.js**, and **MongoDB** within a scalable Turborepo/pnpm monorepo architecture.
- Reduced manual deployment effort by automating container build-and-release workflows through **GitHub Actions** and **Docker-based CI/CD pipelines**.
- Provisioned and deployed containerized services to **LXC infrastructure** with **Nginx** reverse proxy for production.
- Implemented a **drag-and-drop kanban system** using **@dnd-kit** with multi-board support and flexible task management.

TECHNICAL SKILLS

- **Programming languages:** C, C++, JavaScript, TypeScript, Golang.
- **Frontend development:** HTML, CSS, Bootstrap, Tailwind CSS, React.js, Next.js.
- **Backend development:** Node.js, Express.js, NestJS.
- **App development:** Electron.js, React Native.
- **Database:** MySQL, PostgreSQL, SQL Server, MongoDB.
- **DevOps:** Linux, Bash, Docker, Nginx, Cloudflare, Github Actions.

ACTIVITIES

TickLab - Student Organization

Oct 2024 - Present

Engineering Member

- Engineered key features across 2 - 3 internal software initiatives, supporting development, testing, and deployment phases.
- Produce and publish technical articles to share engineering knowledge and implementation practices.
- Collaborate with team members to define requirements, implement solutions, and support project delivery.

CERTIFICATES

IELTS Academic 6.0 | [Link](#)

British Council

Microsoft Office Specialist | [Link](#)

IIG Vietnam