

NGUYEN HA DAT

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SUMMARY

I am a Software Engineering student with hands-on experience building end-to-end applications. I enjoy designing scalable backend systems, developing intuitive user interfaces, and writing clean, maintainable code. I am passionate about learning modern technologies and solving real-world problems through software.

EDUCATION

University of Science, VNU-HCM

Sep. 2023 – Expected Mar. 2027

Bachelor of Information Technology | Major: Software Engineering

- GPA: 3.43/4.0 (8.0/10)
- **Coursework:** DSA, OOP, Databases, OS, AI Fundamentals, Web development, Software Design.

Certificates

English: TOEIC 765/990 (May 2026)

PROJECTS

TicketBox High-Concurrency Event Ticketing System

June 2026 - July 2026

- *Team-size: 3 | Role: Full-stack Developer*
- **Description:** An Event-Driven Modular Monolith ticketing system handling high concurrency and offline-first mobile check-ins.
- **Responsibilities:**
 - * Designed an Event-Driven Modular Monolith architecture capable of handling peak traffic of 80K requests in 5 minutes by implementing Redis-based Token Bucket rate limiting to mitigate bot traffic.
 - * Ensured transaction consistency by preventing ticket over-selling with PostgreSQL Pessimistic Locking and eliminating duplicate payments through Idempotency Keys.
 - * Integrated the Gemini API to extract artist biographies from PDF documents by implementing a preprocessing pipeline for text cleaning and normalization.
- **Tech:** NestJS, TypeScript, PostgreSQL, Redis, BullMQ, Next.js, JWT, OAuth2 Docker.
- **GitHub:** github.com/datkrb/TicketBox

Smart Restaurant QR Menu Ordering System

December 2025 - January 2026

- *Team-size: 2 | Role: Full-stack Developer*
- **Description:** QR-based restaurant ordering platform for dine-in service with real-time order tracking and payment processing.
- **Responsibilities:**
 - * Implemented JWT authentication and role-based access control (RBAC) for Guest, Waiter, Kitchen, and Admin users.
 - * Integrated Socket.IO to provide real-time order status updates between customers, waiters, and kitchen staff.
 - * Built a responsive management dashboard using React 18, TypeScript, and Tailwind CSS.
- **Tech:** Node.js, Express, TypeScript, Prisma ORM, PostgreSQL, Socket.IO, JWT, React, Tailwind CSS.
- **GitHub:** github.com/datkrb/smart-restaurant

SKILLS

Languages : C++, JavaScript/Typescript, SQL(PostgreSQL, MySQL), NoSQL(MongoDB).

Frontend : HTML, CSS, Tailwind CSS, React, Vite.

Backend : Node.js, Express,, NestJS, Redis, RESTful APIs, Prisma ORM.

Tools : Git, Github, Docker, Docker compose, Postman.