

# Vo Tuan Thanh

✉ vtthanh04.qb@gmail.com ☎ 0832314242 📁 Portfolio in vtthanh04 🌐 Azzurrii

## Education

VNUHCM - University of Science

Sept 2022 – Sept 2026

BS in Software Engineering

- **GPA: 3.72/4.0**
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Networking, Web Application Development, Operating Systems, Database, Big Data, DevOps,...

## Experience

Backend Developer Intern

HCMC, Vietnam

AIT LABS

Nov 2024 – Apr 2025

- Assisted in developing blockchain-based backend systems, working with experienced developers to implement RESTful APIs.
- Learned and applied enterprise cloud deployment technologies including Kubernetes and Google Cloud Platform
- Contributed to backend codebase maintenance, bug fixes, unit testing, and feature implementations, adhering to team coding standards.
- Implemented Smart Contract integration for blockchain functionality.
- **Technologies:** Python, FastAPI, TypeScript, Express.js, PostgreSQL, Celery, RabbitMQ, GCP, Docker, Git, Node.js.

## Projects

DistLink – URL Shortener Platform

[🌐 Azzurrii/DistLink](#)

Full Stack Developer — Individual Project

Feb 2025 – Mar 2025

- Engineered a high-performance URL shortening system using NestJS and TypeScript.
- Designed and deployed a distributed backend architecture leveraging ScyllaDB for write-heavy workloads, Redis for low-latency caching, and Kafka for async messaging pipelines.
- Optimized background processing via Bull Queue, reducing request latency by 35% for non-blocking operations.
- Deployed infrastructure on a self-hosted VPS with Docker, Nginx and Cloudflare.
- **Tech stack:** NestJS, TypeScript, ScyllaDB, Redis, Kafka, Bull Queue, JWT, Docker, GitHub Actions, Nginx, Cloudflare.

Zocular – E-commerce Platform

Freelance Project

Backend Developer — Team of 3

Feb 2025 – Present

- Engineered and scaled backend services for a comprehensive B2B and B2C E-commerce Platform
- Developed the core e-commerce transaction flow, encompassing product catalog management, shopping cart functionalities, secure checkout processes, and comprehensive order processing.
- Implemented advanced B2B features including multi-level approvals, flexible discounts, and a referral loyalty system.
- Integrated key third-party APIs: Stripe for payment processing, automated invoicing, and subscriptions; Google Maps for location-based services (stores, brands, support).
- **Tech stack:** TypeScript, ExpressJS, Node.js, MongoDB, Redis, Docker, Nginx, GitHub Actions.

## Technologies & Skills

**Languages:** JavaScript, TypeScript, Python, C#, C++, SQL.

**Frameworks & Libraries:** Node.js (Express.js, NestJS), Python (FastAPI).

**Databases & Caching:** PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Redis.

**Other Tools:** Git, GitHub, Docker, CI/CD (GitHub Actions), Google Cloud Platform (GCP), RabbitMQ, Nginx, Postman, VS Code, JetBrains IDEs, Linux.

**Foreign Language:** English (Intermediate).