

Nguyen Thanh Tien

Intern Backend and Mobile Engineer

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Overview

I am a fourth-year Software Engineering student at Ton Duc Thang University, currently seeking an Intern Backend & Mobile Engineer position to gain real-world experience and develop my practical skills to fulfill my graduation requirements.

I have a foundational understanding of Mobile technology and Backend application development , including familiarity with RESTful APIs, Docker, and Firebase services. My primary goal is to find a professional environment where I can learn and adapt to new technologies.

Alongside my basic English communication skills , I am deeply committed to improving the quality of my work through continuous learning and dedication.



Education

Aug 2022 – Now

Ton Duc Thang University

Major - Software Engineering



Skills

- Main**
- JavaScript, Java
 - Native Android Development (Java)
 - RESTful API (ExpressJS)
 - SQL, NoSQL (MongoDB)
 - Server (Nginx, Redis, Queue, Log...), Docker
 - Firebase (Authentication, Cloud Firestore, Realtime Database, Cloud Storage, Cloud Messaging)
 - English: Upper-Intermediate (B2) - Aptis ESOL Certificate (Issued by British Council)

Other

- GIT
- UML Modeling
- Basic Proficiency in UI Design Tool (Figma)
- Work Management Tool (Jira)
- Familiarity with Agile and Scrum principles

SCALABLE SYSTEM DESIGN & DEPLOYMENT

(10/2025)

Source code	https://github.com/TDeV-VN/midterm-nodejs-tdtu
Descriptions	A project dedicated to learning and professionally applying Docker in a real-world context, focusing on designing and deploying a robust, scalable backend system. It emphasizes modern DevOps practices and tooling for a streamlined development and production workflow.
Number of members	1
Position	Backend & DevOps Engineer
Responsibilities	<p>System Architecture:</p> <ul style="list-style-type: none"> Designed a decoupled system where services (API, Worker) can be scaled horizontally by replicating container instances. Implemented a Redis-based message queue (BullMQ) to decouple the API from background workers, ensuring reliable asynchronous task processing and improving system resilience. <p>DevOps & Containerization:</p> <ul style="list-style-type: none"> Orchestrated the entire system using Docker Compose, creating distinct, isolated environments for development and production. Authored optimized multi-stage Dockerfiles to produce lean, secure production images, drastically reducing their size and potential vulnerabilities. Configured Nginx as a reverse proxy and a secure entry point to the system. <p>Professional Workflow & Tooling:</p> <ul style="list-style-type: none"> Managed application settings for different environments (dev/prod) through centralized configuration files and environment variables. Integrated a suite of professional tools to enhance the development lifecycle: Nodemon for hot-reloading, ESLint for code quality enforcement, and Dozzle for real-time log aggregation and viewing across all running containers.
Technology in use	<ul style="list-style-type: none"> Architecture: Scalable Design, Service Decoupling, Message Queues (Redis, BullMQ) DevOps: Docker, Docker Compose, Nginx, Environment Configuration Developer Tooling: Dozzle (Log Aggregation), ESLint, Nodemon Backend: Node.js, Express.js, MongoDB

E-COMMERCE WEB PLATFORM (GEAR UP)

(11/2025 - 12/2025)

Source code	https://github.com/TDeV-VN/tdtu-nodejs-ecommerce
Descriptions	A full-featured E-commerce system with a multi-service architecture. The platform includes a customer-facing website (Next.js), an admin dashboard (React/Vite), a central backend API (Node.js/Express), and a background worker for asynchronous tasks.
Number of members	3
Position	Backend & DevOps Engineer
Responsibilities	<p>System Architecture & Backend:</p> <ul style="list-style-type: none">Contributed to developing a decoupled system where services (API, Worker, Frontend) operate independently.Implemented a Redis-based message queue (BullMQ) to decouple the API from background workers, ensuring reliable asynchronous task processing (e.g., sending emails) and improving system resilience.Developed and maintained RESTful APIs for features: user authentication, shopping cart, orders, and a discount system.Integrated real-time features using Socket.IO for live product reviews, enhancing user interaction. <p>DevOps & Development Workflow:</p> <ul style="list-style-type: none">Orchestrated the entire system using Docker Compose, creating distinct, isolated environments for development and production.Authored optimized multi-stage Dockerfiles to produce lean, secure production images, reducing their size and potential vulnerabilities.Managed application settings for different environments through centralized configuration files.Collaborated within the team using Git and enforced code quality standards with ESLint.
Technology in use	<ul style="list-style-type: none">Architecture: Service-Oriented Architecture, Service Decoupling, Message Queues (Redis, BullMQ), Real-time (Socket.IO).Backend: Node.js, Express.js, MongoDB, Mongoose, Passport.js.Frontend: Next.js, React.js, Redux Toolkit, Vite, Tailwind CSS, TypeScript.DevOps & Tooling: Docker, Docker Compose, Git, ESLint.

QuizFlash - Mobile Learning App

(10/2024 - 12/2024)

Source code	https://github.com/TDeV-VN/Android-QuizFlash
Descriptions	A mobile application for Android designed for vocabulary learning through flashcards and interactive quizzes. It enables users to create and manage personal vocabulary topics, share them with the community, and learn using various methods like flashcards, multiple-choice questions, and typing exercises.
Number of members	3
Position	Project Management & Full-stack Mobile Developer
Responsibilities	<ul style="list-style-type: none">Developed and managed the entire backend system using Firebase, including Firestore for real-time database, Authentication for user management, and Cloud Storage for media assets.Implemented real-time data synchronization to provide a seamless offline-first experience.Engineered core features such as creating, reading, updating, and deleting (CRUD) public and private vocabulary topics.Developed the user ranking and leaderboard system.Implemented the topic search functionality.Led the development of the user profile and account management sections.UI Design (Figma) for the various learning modes (Flashcard, Quiz, Typing).
Technology in use	Firebase (Authentication, Firestore, Cloud Storage)