



# HUYNH BAO TOAN

BACKEND ENGINEER

**Website:** <https://github.com/baotoan-dev>

## OBJECTIVE

**Short-term goal:** Strengthen expertise in backend engineering by mastering scalable architectures, high-performance systems, and best coding practices within the next year.

**Long-term goal:** Progress into a senior leadership role in Full-Stack Engineering within five years, driving innovation, mentoring engineers, and architecting cutting-edge solutions.

## EDUCATION

2020 - 2024 **HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY AND EDUCATION**  
SOFTWARE ENGINEERING

## WORK EXPERIENCE

03/2023 - 03/2024	<b>NEOWORKS LIMITED LIABILITY COMPANY.</b> <b>Fullstack Engineer</b> <ul style="list-style-type: none"><li>• Design and develop scalable APIs for CV management, candidate search, profile updates, real-time communication, and job postings.</li><li>• Deploy and optimize the product on a VPS for high availability, security, and performance.</li><li>• Integrate third-party services like payment gateways, cloud storage, and external APIs.</li><li>• Design and implement communication, banner, and category features for the admin page.</li></ul>
03/2024 - 03/2025	<b>MIGHTYID VIETNAM JSC</b> <b>Backend Engineer</b> <ul style="list-style-type: none"><li>• Develop and optimize core system modules – Design, build, and maintain HRM, CRM, and ERP functionalities for scalability and performance.</li><li>• Implement secure authentication &amp; authorization – Use RBAC, OAuth, and JWT for enhanced data security and access control.</li><li>• Develop and maintain automated testing frameworks – Build unit, integration, and performance tests integrated with CI/CD to ensure system stability.</li><li>• Integrate third-party services and APIs – Connect external platforms like payment gateways, AI services, and cloud storage to extend system capabilities.</li></ul>

## SKILLS

<b>Frameworks/Platforms</b>	<ul style="list-style-type: none"><li>• ReactJS, NodeJS, NestJS, NextJS, React Native, VueJS, NuxtJS</li><li>• Webpack/Babel, JQuery, Tailwind, Bootstrap, MaterialUI, antd</li></ul>
<b>Programming Languages</b>	<ul style="list-style-type: none"><li>• JavaScript &amp; TypeScript, Java, PHP</li></ul>
<b>Database:</b>	<ul style="list-style-type: none"><li>• SQL DBs: PostgreSQL, MS SQL Server, MySQL, MariaDB</li><li>• NoSQL: MongoDB, Redis, Firebase</li></ul>

Other Skills	• Docker, Docker Compose, Kubernetes, CI/CD: GitHub Actions, Jenkins, Nginx, Apache
Language	• Toeic 650

PROJECTS

03/2024 - 07/2024	<p><b>MAPLE EDUVERSE:</b> <a href="https://mapleediverse.com">https://mapleediverse.com</a></p> <p><b>Technologies:</b> NuxtJS, NestJS, Redis, MongoDB, Docker, Nginx, CI/CD, AWS</p> <p><b>Description:</b></p> <ul style="list-style-type: none"><li>• MAPLE EDUVERSE is a student and teacher management software that meets Ministry of Education standards, deployed with 20,000 licenses at Binh Hung Hoa Lower Secondary School, supporting efficient administration and digital transformation.</li></ul> <p><b>Responsibilities:</b></p> <ul style="list-style-type: none"><li>• Designed and implemented an automated timetable scheduling algorithm to optimally assign subjects, teachers, and classrooms while meeting constraints.</li><li>• Implemented secure authentication and role-based access control (RBAC) to safeguard user data and ensure regulatory compliance.</li><li>• Developed backend systems for student and teacher management, gradebook, and LMS, ensuring security, performance, and smooth integration.</li></ul>
07/2024 - 11/2024	<p><b>MIGHTYID - HRM:</b> <a href="https://hrm.mightyid.ca">https://hrm.mightyid.ca</a></p> <p><b>Technologies:</b> Python, NestJS, NuxtJS, Redis, MongoDB, Docker, Nginx, CI/CD, AWS, Socket.IO</p> <p><b>Description:</b></p> <ul style="list-style-type: none"><li>• A comprehensive HR software automating attendance, payroll, leave requests, and work schedules. It calculates salaries, bonuses, and benefits, offering analytics and reports to support decision-making for companies like Talaw, AMVC, and MIGHTYID.</li></ul> <p><b>Responsibilities:</b></p> <ul style="list-style-type: none"><li>• Optimize schemas and queries for large datasets on employee records, payroll, and attendance.</li><li>• Create RESTful APIs and WebSocket services for backend-frontend communication, ensuring authentication and data integrity.</li><li>• Set up testing frameworks, integrate with CI/CD, and ensure code quality via reviews and automated deployment</li></ul>
11/2024 - 03/2025	<p><b>AI - TEST BUILDER:</b> <a href="https://aitestbuilder.com">https://aitestbuilder.com</a></p> <p><b>Technologies:</b> Python (Flask), NestJS, NuxtJS, Redis, MongoDB, Docker, Nginx, CI/CD (GitHub Actions, Jenkins), AWS, Socket.IO</p> <p><b>Description:</b></p> <ul style="list-style-type: none"><li>• AI - Test Builder allows users to create and manage questions, test parts, and full tests, adding them to a question bank with AI-powered automatic question generation.</li></ul> <p><b>Responsibilities:</b></p> <ul style="list-style-type: none"><li>• Implemented backend logic for creating, managing, and storing various question types.</li><li>• Developed and trained an AI model for automatic, relevant question generation.</li><li>• Created functionalities for managing test parts and full tests.</li></ul>