# DO TRONG KHANH

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Binh Thanh, Ho Chi Minh, Viet Nam

## FULL STACK DEVELOPER

Passionate Full stack Developer with 3 years of experience in developing scalable web applications. Strong expertise in backend architecture, database management, and system architecture. Adept at problem-solving, technical documentation, and cross-functional collaboration. Proven ability to enhance system performance, automate workflows, and scale applications using modern technologies.

## PROFESSIONAL EXPERIENCE

### YouNet Media | *Full stack Developer*                     *Mar 2023 - Present*

#### EcomHeat | *Full stack Developer*                     *Mar 2023 - Present*

EcomHeat helps to measure the performance of the industry and players on E-Commerce platforms thru cross E-commerce channels.

*Accomplishments:*

- Developed APIs to automate exporting 1M+ rows to Google Sheets, reducing manual work by 90%.
- Implemented APIs for price history, set up daily monitoring and email alerts, and developed a SKU management system for Vinamilk and Enfa's pricing needs.
- Developed a scheduling system using Apache Airflow and Google BigQuery to calculate brand metrics on large datasets, ensuring accurate verification and achieving revenue goals.
- Applied a monorepo architecture with NestJS to optimize development efficiency and improve maintainability.
- Implemented HighchartsJS for data visualization, developed a UI for shop growth tracking, and built APIs for managing store data and large datasets.

#### App Core | *Backend Developer*                     *Jan 2024 - Present*

Designed and led the development of core NestJS packages, including DatabaseModule, CacheModule, RedisModule, ConfigModule, and others, significantly improving development efficiency and deployment processes across multiple projects.

*Accomplishments:*

- Architected a scalable database connection management system, boosting query performance 25% and enhancing reliability.
- Engineered advanced caching mechanisms, optimizing speed by 40%, reducing load times, and decreasing resource consumption.
- Developed a Redis-based real-time data management module, cutting data processing times by 20%.
- Optimized environment configuration handling, reducing configuration errors by 40%.
- Published reusable core packages on npm, streamlining development for 3+ projects.

#### Lucene Search Service | *Backend Developer*                     *Sep 2024 - Nov 2024*

Developed an optimized search service leveraging Apache Lucene to pre-filter records before inserting them into Solr, reducing unnecessary query loads and enhancing system performance.

*Accomplishments:*

- Optimized data processing with a pre-search mechanism using Apache Lucene, reducing requests sent to Solr.
- Enhanced system scalability, enabling high-load handling and improving search efficiency.
- Increased system performance, reducing processing overhead and improving response times for search operations.
- Developed a reusable search solution, allowing other projects to leverage Lucene Search without requiring Solr integration.

### QKIT Software | *Backend Developer*                     *Mar 2022 - Mar 2023*

#### Military 7A Bidding | *Backend Developer*                     *Sep 2022 - Mar 2023*

Developed a web-based system to manage and track bidding packages for medical supplies, ensuring efficient handling of package information and secure access control.

*Accomplishments:*

- Spearheaded the project's backend architecture, including the design and implementation of a PostgreSQL database from the ground up.
- Integrated JWT-based authentication and authorization, successfully reducing unauthorized access by 70%.
- Authored and maintained comprehensive API documentation using Swagger, ensuring clear communication and ease of use for internal teams.

**QKIT Admin |** *Backend Developer*                                                    *Mar 2022 - Aug 2022*
Developed and maintained a web app for managing company website content,  blogs, clients, and recruitment.
**Accomplishments:**
- Contributed to Agile processes and Scrum ceremonies, driving a 20% boost in project completion rates.
- Refactored legacy code, leading to a 20% improvement in system stability and runtime efficiency.
- Leveraged PostgreSQL and Prisma to enhance database management, resulting in faster and efficient processing.

## TECHNICAL SKILLS

**Programming Languages**: Javascript, Typescript, Python and C++.
**Databases**: MySQL, PostgreSQL, MongoDB and Redis.
**Frameworks & Libraries**: NodeJS, NestJS, ReactJS, Tailwind CSS, Redux, JQuery and others.
**Tools & Platforms**: Docker, Kubernetes, Jenkins, Git, Jira, Swagger, Postman and NeoVim.
**Technologies**: Restful API, GraphQL, RabbitMQ and Solr.

## SIDE PROJECTS

**Karhdo's Blog:** Built a personal blog showcasing my portfolio, code snippets, and development logs, featuring detailed insights into my development process.
**Karhdo's Core:** Published backend server packages on npm using NestJS, optimizing server-side operations and accelerating development efficiency.
**Fusion Solar System:** Developed a custom crawler to extract and process data, streamlining the reporting process and ensuring timely and accurate data delivery.

## EDUCATION

**Master Of Computer Sience**                                                              11.2024 - Present
University Of Information Technology
- Major in Infomation System

**Bachelor Of Computer Sience**                                                           09.2019 - 09.2023
University Of Information Technology
- Major in Computer Science
- GPA: 8.5/10

## CERTIFICATE

**TOEIC** - 750 / 990
- Certified English proficiency, focusing on listening and reading skills.

**Udemy - Node.js, Express, MongoDB & More** (Completed: 2023)
- Node.js backend development with REST API, authentication, and database management.

**Udemy - React: The Complete Guide** (Completed: 2023)
- Learning on React, Redux, Hooks, and performance optimization for modern front-end development.