

# NGO DANG KHOA

## SOFTWARE ENGINEER

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### SUMMARY

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**Backend Developer** with 2+ years of experience designing and building scalable server-side applications using **Node.js** and **TypeScript**. Strong understanding of **Microservices architecture** and **Domain-Driven Design (DDD)** principles. Proficient in **Redis**, **MQTT**, **PostgreSQL**, and **Docker**, with a focus on clean architecture and system design. Experienced in building secure, high-performance **REST APIs** and real-time communication systems.

### TECHNICAL SKILLS

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**Core:** JavaScript (ES6+), TypeScript, HTML, CSS, SQL, Tailwind CSS

**Technologies:** Node.js, React.js, Next.js, Redis, Mqtt, REST APIs

**Realtime & Data Visualization:** Socket.IO, Chart.js, Recharts

**Tools & Cloud:** Git, Docker, AWS EC2

### WORK EXPERIENCE

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**BACKEND ENGINEER - MID VIETNAM COMPANY LIMITED | Ho Chi Minh City** Jun 2024 – Present

**HR Management System | Nov 2024 - Mar 2025**

- Built a modular **Node.js** backend across **4 HR domains** (attendance, task assignment, leave, KPI), supporting **40+ employees** with **RBAC**.
- Secured **RESTful** APIs with **JWT** authentication, enabling stateless and horizontally scalable request handling.
- Integrated **FCM** for push notifications and **Redis caching**, reducing query latency by **~40%** on high-read endpoints.
- Optimized **MySQL** with indexed queries, sustaining API response times.

**Logistics Management System | Mar 2025 - Jul 2025**

- Built backend infrastructure using **Node.js** with an **API Gateway**, **RBAC**, and **MQTT integration** enabling real-time bidirectional communication with **IoT devices across a fleet of 10+ vehicles**.
- Applied **Redis caching** and **MySQL** with optimized indexing, reducing average query execution time by **~35%** on high-frequency logistics endpoints.
- Digitized stock operations and shipment workflows, cutting processing errors by **35%** and reducing average task completion time by **~25%**.

**Vehicle Rental Management System | Jul 2025 - Dec 2025**

- Developed a rental platform backend using **Node.js** with **API Gateway**, **RBAC**, and **MQTT-based IoT connectivity** for real-time vehicle monitoring and control.
- Built a dedicated OCR microservice to scan and validate **multiple customer document types** (ID cards, driver's licenses, etc.), cutting onboarding verification time by **~80%**.

### PERSONAL PROJECTS

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**MNC - Movie Streaming Platform**

Jul 2023 - Aug 2023

- Built a fully responsive movie discovery web app with **React.js**, consuming the **TMDB API** to support movie search, ratings display, user reviews, and in-app trailer playback — deployed on **Vercel**.

**SOLFIVE - Music Streaming Web App**

Jun 2024

- Developed a fully responsive music streaming web app using **React.js** and **TypeScript**, integrating the **Zingmp3 API** for real-time song search, in-browser audio playback, and personal playlist management — deployed on **Vercel**.

### EDUCATION

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**Industrial University of Ho Chi Minh City | Ho Chi Minh City, Vietnam**

2021-2025

*Bachelor of Engineering, Computer Science*