

Truong Cong Hai

Full Stack Developer

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📅 Year of birth: 2004

OBJECTIVE

I am Truong Cong Hai, a Fullstack Developer with experience working with **Spring Framework, NestJs, ReactJs and NextJs**. In short term objectives, I would like to see myself as a senior who can lead a team and work independently to give solutions. I am happy to learn technologies and business domain that required for the project and improve myself by continuous, proactive learning and incorporating feedbacks.

WORK EXPERIENCE

TMA Solution 12/2025 - 04/2026

AI-integrated project management software - Full Stack Developer

Technologies: React, React Router, ShadcnUI, Tailwindcss, Tanstack Query, ExpressJS, S3, MongoDB, PostgreSQL, Multi-tenant.

Responsibilities:

- Enhanced **RBAC of the system**, using **permission matrix** to detect the ability to commit the actions **instead of depending solely on roles**.
- Implemented Meeting Notes features, using an **internal AI API to generate summary and transcript from an audio file**, handle **loading and fault-tolerance** when the **AI service returns errors**.
- Implemented **tracking history for tasks** to enhance tracability and accountability (**reference Jira task history**) by using a middleware on the related endpoints.
- Built a **global search feature** with **full-text search and low latency (~ 100ms)** using **text index** on fields that being used to search, ensure the **permission to access to the resources**.

EDUCATION

Industrial University of Ho Chi Minh city 2022 - 2027 (Expected)

Major: Software Engineering

- CPA: 3.59 / 4.0 (8.5 / 10)
- 4 *Excellent Tuition* Scholarships for Academic Excellence

SKILLS

Programming	OOP, HTML, CSS, Javascript, Typescript, RESTful APIs, MVC, Microservices, Event Driven
Frontend Development	Reactjs, Nextjs, Tailwindcss, Redux, Redux Tool Kit, Tanstack Query
Backend Development	ExpressJS, NestJS, NodeJS, Spring Framework (Spring Core, Spring Data, Spring MVC, Spring Security)
Database & Caching	Dynamodb, Mongoddb, MySQL, PostgreSQL, Redis
Devops & Tools	Docker, Docker compose, AWS, Git, Github, Vscode, IntelliJ IDEA, AI Agent
Language	English, Vietnamese

CERTIFICATIONS

English - TOEIC Listening & Reading: 900 / 990 2026 - 2028

PROJECTS

D4C Clothing Shop - Microservice

05/2026 - 06/2026

Full Stack Developer

Technologies: ReactJs, TailwindCSS, ShadcnUI, Axios, Tanstack Query, Mariadb, DynamoDB, AWS S3, JWT, Redis, Spring Boot, ExpressJs, RabbitMQ, SePay, Docker, Typesense.

- **Microservices:** used **Spring Cloud Gateway** for API Gateway and **Eureka** for service discovery, **ELK** stack for logging and monitoring, **Redis** for caching and rate limiter.
- **Auth:** used **asymmetric encryption** to sign **JWT** and expose **public keys from User Service for Gateway** to verifies and **attaches claims to header and forwards** to downstream services.
- **Fault Tolerance:** **Retry** when **API receive 5xx status or network error**, **Circuit Breaker** and **DLQ** for ensuring **failed internal communication** did not **affect** the systems. **Saga and Outbox pattern** to ensure **events are consumed correctly**.
- **Search Engine:** Implemented **Typesense** for **typo-tolerant search products based on indexes**, with **caching in Redis** to improve search performance (**~ 50ms when has caches, ~500ms when has not**).
- **Event Driven:** Integrated **RabbitMQ** to communicate asynchronously, **follow the best practices when implemented**

Github: https://github.com/trgcghai/D4C_Clothing_Shop

Goat - Job Hunter Platform

03/2026 - 05/2026

Full Stack Developer

Technologies: Nextjs, Typescript, Redux Tool Kit, Axios, Tailwindcss, ShadcnUI, Spring Boot, Spring AI, Spring Security, Redis, Websocket, DynamoDB, Cloudflare, S3, EB, Agora SDK

- **Frontend:** Used NextJs, Shadcn UI, Tailwindcss to opitimize SEO and performance for web application. React Native for native applications on mobile device.
- **Backend:** Used Spring Boot, Spring Security, Spring AI to build REST APIs, AWS for storing media files in system.
- **Authentication & Authorization:** Implemented PBAC with JWT token with Redis caching for better performance when retrieving permission.
- **Real-Time Messaging:** Built a WebSocket / STOMP chat system with low latency (~ 100ms) mesage delivery with various type of message.
- **Voice / Video Calling:** Built call feature using WebRTC with Agora SDK for mobile devices and web application.
- **Deploy & CI/CD:** Hosted frontend on Vercel, deployed backend using AWS platform and Docker.

Github:

Frontend: <https://github.com/trgcghai/Goat-JobHunter-Fe>

Backend: <https://github.com/trgcghai/Goat-JobHunter-Be>