

TRAN CONG MINH

BACKEND DEVELOPER INTERN

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SUMMARY

Final-year Software Engineering student specializing in backend development and microservices architecture. Experienced in building RESTful APIs, scalable backend services, and database-driven applications using Java Spring Boot, SQL databases, and AWS. Seeking a Backend Developer Intern opportunity to develop secure, maintainable, and high-performance server-side solutions while improving practical experience in microservices, cloud deployment, and backend system design.

TECHNICAL SKILLS

Programming Languages	Java, JavaScript, TypeScript
Backend	Spring Boot, Spring Cloud, Spring Security, Node.js, REST APIs, WebSocket (Socket.IO), JWT
Databases & Caching	MySQL, PostgreSQL, MariaDB, MongoDB, Redis
Infrastructure & Cloud	Microservices, Apache Kafka, Docker, Nginx, AWS EC2, AWS S3
Frontend	React, React Native, Next.js, HTML5, CSS3, Tailwind CSS
Tools	Git, GitHub Actions, Maven, Postman

PROJECTS

TechShop | Microservices E-commerce Platform Mar 2026 - Jun 2026

Backend-focused Full-stack Developer (Team size: 4)

Tech Stack: Java, Spring Boot, Spring Cloud, Spring Security, OAuth2, Kafka, Redis, JWT, MySQL, Docker, Nginx, AWS, CI/CD, ReactJS.

Description: Distributed e-commerce platform built with Spring Boot microservices and event-driven architecture.

- Developed backend services within an 11-microservice architecture, enabling **independent deployment** and **scalability**.
- Implemented an Auth Service using **Spring Security, JWT, OAuth2** (Google & Facebook), and **RBAC** to secure **20+ REST APIs**.
- Optimized API performance using **Redis caching** and Token Bucket rate limiting, validated with **Grafana k6** load testing.
- Implemented distributed transactions across Order, Inventory, and Payment services using **Apache Kafka, Transactional Outbox**, and **Saga pattern**.
- Automated CI/CD using **GitHub Actions**, containerized services with **Docker**, configured **Nginx** reverse proxy, and deployed to **AWS EC2**.

GitHub: <https://github.com/tcminh1405/TechShop-E-commerce-Platform>

Real-time Messaging & Communication Platform Mar 2026 - Jun 2026

Role: Full-stack Developer (Team size: 4)

Tech Stack: Node.js, TypeScript, Socket.io, WebRTC, PostgreSQL, MongoDB, AWS, Docker, CI/CD, React Native, Tailwind CSS.

Description: Fullstack real-time messaging platform (similar to Zalo) supporting chat, calls, and social features.

- Developed a real-time messaging platform supporting 1:1, group chat, and real-time notifications using **Socket.io**.
- Implemented 1:1 audio/video calling with **WebRTC** and peer-to-peer communication for low-latency voice and video calls.
- Built real-time notification features for messages, friend requests, call events, and social interactions.
- Developed friend management features including add, accept, block, group management, and friend suggestions.
- Implemented real-time polling, enabling group members to create polls, cast votes, and receive live result updates.
- Containerized the system using **Docker** and configured **CI/CD** deployment to an **AWS** environment.

GitHub: <https://github.com/tcminh1405/Realtime-Communication-Platform>

EDUCATION

Industrial University of Ho Chi Minh City (IUH)

Engineer's Degree in Software Engineering

GPA: 3.0 / 4.0 (Current)

2022 – Present

Expected Graduation: Mar 2027

LANGUAGE

English: TOEIC 600 (Listening & Reading)

Dec 2025