




# Nguyen Cong Quan

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## EDUCATION

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**SaiGon University**  
*B.S Software Engineering*

Sept. 2023 – June 2028  
*Current GPA: 3.1/4.0*

## SKILLS

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**Languages:** C/C++, Python (Data Structures, Algorithms), Java (OOP), JavaScript/TypeScript  
**Frameworks:** Node.js, Next.js (SSR/SSG, App Router), Spring Boot ( JPA/Hibernate, MapStruct), React, Tailwind CSS , Express.js, ShadCN  
**Tools & Technologies:** Git/GitHub (CI/CD), Unix Shell (Bash/WSL2), Docker (Containerization), PostgreSQL, MySQL, MongoDB, RESTful APIs, RAG Systems (LLMs, Vector DB), Cloudinary

## PROJECTS

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**RAG + Knowledge Graph Platform** | *FastAPI, React 19, TypeScript, ChromaDB, LightRAG, Ollama, Gemini* Jan. 2026

- Developed a full-stack RAG platform for building workspace-based knowledge bases with document upload, semantic search, and AI chat with source citations.
- Built a NexusRAG pipeline for document parsing, deduplication, chunking, embedding, vector indexing, and Knowledge Graph ingestion.
- Implemented hybrid retrieval combining vector search and Knowledge Graph context with multiple retrieval modes such as hybrid, vector-only, local, global, and naive.
- Integrated real-time chat streaming using Server-Sent Events (SSE), interactive citations, image-aware answers, and persistent chat history.
- Developed the frontend with React 19, Vite, TypeScript, and Zustand, and the backend with FastAPI, SQLAlchemy Async, PostgreSQL, and ChromaDB.

**Source Code:** [github.com/congquan92/RAG](https://github.com/congquan92/RAG)

**QLBH — Sales Management System** | *Next.js 16, React 19, TypeScript, Laravel 12, MySQL, Redis, Docker* Sep. 2025

- Developed a full-stack sales management system with a customer storefront and an admin panel using a client-server architecture and RESTful APIs.
- Implemented JWT authentication, refresh token flow, Google OAuth2 login, OTP verification, and role-based access control (RBAC).
- Built customer-facing features including product browsing, search and filtering, shopping cart, order placement, voucher application, and VNPay/COD payment.
- Developed admin modules for product management, order tracking, inventory management, employee management, shift scheduling, leave requests, payroll, vouchers, and revenue statistics.
- Integrated Redis, Dockerized MySQL/Redis services, Firebase notifications, and Excel export for schedules and attendance reports.

**Source Code:** [github.com/congquan92/QLBH](https://github.com/congquan92/QLBH)

**SGU Timetable** | *React, TypeScript, Tailwind CSS, Firebase*

Jan. 2023

- Developed a smart timetable planner for SGU students, reaching over **50,000+** total visits.
- Implemented a conflict-detection algorithm for smart booking, automatically preventing schedule overlaps.
- Built an calendar grid with LocalStorage synchronization, enabling users to manage up to 5 schedule versions.
- Integrated Firebase Firestore with a cooldown mechanism to track system traffic.

**Source Code:** [github.com/congquan92/TKB\\_SGU](https://github.com/congquan92/TKB_SGU)

## AWARDS & CERTIFICATIONS

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**Academic Excellence Scholarship** | *Saigon University*

2024 – 2025

- Awarded twice for maintaining a high GPA and demonstrating outstanding academic performance in Software Engineering.

**English Proficiency - CEFR B1**

2025

- Capable of reading technical documentation and communicating effectively in professional environments.