



Nguyễn Hữu Lộc Backend Intern Developer

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Objective

A final-year IT student specializing in backend development, seeking a **Backend Intern** role to apply academic knowledge in real-world projects. Passionate about scalable systems, eager to learn from industry experts, and contribute effectively to team success.

Education

2022 - 02/2026 Sai Gon University
Bachelor of Information Technology
GPA: 3.38/4 (8.26/10)
Scholarship: 5 times (Encouragement Scholarship)

Achievements

- **Top 2 - Hackathon 02/2025 (Sai Gon University):** Developed an AI learning assistant using the **OpenAI API**. Led the backend development and delivered a working demo in 24 hours.
- **Encouragement - Hackathon 11/2025 (Sai Gon University):** Developed an system recommend routes for tourists in Ho Chi Minh City. Finish in 10 hours. Using algorithm VRP (Vehicle Routing Problem).

Skills

Languages: Java, Ruby, Python
Frameworks: Spring Boot, Ruby on Rails, ReactJS
Databases: MySQL, Redis, MongoDB, PostgreSQL
Architecture: Microservices, MVC, Three Layer
Realtime Communication: WebSocket
Tools/DevOps: Git/GitHub, Docker, Swagger, AWS-EC2

Projects

- 1. SchoolTest – Online Quiz System** (Team Project – 4 members)
 - **Timeline:** 06/2025 – 08/2025
 - **Description:** An online quiz platform for an teacher in **SGU** that allows them to create and manage quizzes, while students can take tests and receive instant feedback.
 - **Key Responsibilities:**
 - Fixed bugs and developed additional features for the system using **PHP** with the **MVC** architecture.
 - Deployed and hosted the application using **VPS** and **AWS EC2**.
 - **Technologies:** PHP, MVC, MySQL
 - **Hosting:** sgutest.site
- 2. Calligo – Real-time Messaging Platform** (Personal Project)
 - **Timeline:** 12/2024 – 06/2025
 - **Description:** Full-stack chat system with a microservices architecture, supporting real-time messaging and scalable system.
 - **Key Responsibilities:**
 - Designed and implemented a distributed backend using **Spring Boot** with **Microservices**.
 - Built a real-time communication layer with **STOMP over WebSocket**.
 - Managed data with **MongoDB, Redis, and MySQL**.
 - **Performance Test:**
 - Simulated **1,000 users** sending **5 messages each**; **Messages received: 95,436**.
 - **Connection success rate: 98.34%** (Avg connect time: **438ms**).
 - **HTTP API: 34,705 requests, 0 errors, 95th percentile: 3.1s**.
 - **Technologies:** Spring Boot, WebSocket, ReactJS, MongoDB, Redis, MySQL, Kafka
 - **GitHub:** [Backend](#) | [Frontend](#)