



# 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

<b>Languages:</b>	Java, Ruby, Python
<b>Frameworks:</b>	Spring Boot, Ruby on Rails, ReactJS
<b>Databases:</b>	MySQL, Redis, MongoDB, PostgreSQL
<b>Architecture:</b>	Microservices, MVC, Three Layer
<b>Realtime Communication:</b>	WebSocket
<b>Tools/DevOps:</b>	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](http://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](#)