



# Nguyễn Hữu Lộc Backend Intern Developer



[lockbkbang@gmail.com](mailto:lockbkbang@gmail.com)



0397845443



23/09/2004



Hoc Mon, TP HCM



<https://github.com/LocNguyenSGU>



<https://locnguyensgu.github.io/nguyenhuuloc2k4/>

## 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 a 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 a 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](#)