

# Le Quang Hai - Software Engineer Intern - Backend

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## Education

### Swinburne University, FPT alliance program, Ho Chi Minh

July 2022 - Mar 2025

- Bachelor in Computer Science.
- Courses: Computer System, Networking (CCNA), Data Structure (C++), OO-Programming (C#), Software Architecture.

## Knowledge

- **Full-Stack Development:** JavaScript (Next.js, Express.js), HTML, Tailwind CSS, C# (ASP.NET Core, ADO.NET Entity Framework), relational database (MySQL, SQL Server), NoSQL (MongoDB, DynamoDB).
- **DevOps & Agile Management:** AWS cloud, Docker, GIT, Jenkins, Jira, Confluence, Linux System.
- **Programming:** C++, Python, Ruby, Java, Bash.
- **Languages:** Vietnamese native, English C1 proficiency, Chinese beginner level.

## Projects

### Restaurant Information System | [Swinburne Software Design Project](#)

- Designed and implemented a website to enhance business model operation.
- Frontend: dynamic UI with Next.js and Tailwind CSS.
- Backend: REST API with C# ASP.NET Core MVC, data ORM with Entity Framework to interact with MySQL database.

### TikTok Frontend Clone | [React Learning Project](#)

- Implemented a 100% replication of TikTok website UI using React.js.
- Utilized SCSS and the CX library to avoid class name collisions, improving code manageability and maintainability.
- Integrated Axios to fetch user, post, and comment data from third-party RESTful APIs.

### Swin Adventure Console Game | [Object-oriented Program](#) | [Link to GitHub](#)

- Developed C# interactive game applying object-oriented programming principles and design patterns.
- Parsed world-map data from CSV files and implemented a processor that interprets player commands.
- Ensured robust error prevention through unit testing, successfully deployed on Docker.

### Knowledge-based Agent | [Swinburne Artificial Intelligence Project](#) | [Link to GitHub](#)

- Implemented classic AI engine utilizing Truth Table, Forward and Backward Chaining algorithms.
- Extract knowledge from files to indicate new truths from existing ones.
- Applied C++ object-oriented programming and specialized data structures.

## Certificates

### Project Management Specialization | [Grow with Google](#) | [Certificate](#)

- In-depth understanding of project management principles, including key traits, roles, and responsibilities.
- Gained expertise in phases of SDLC, stakeholder and risk management, specialized in Agile/Scrum methodology.

### IT Automation Specialization | [Grow with Google](#) | [Certificate](#)

- Experienced in **Linux** and Python, Bash scripting, GIT version control
- Familiarized with infrastructure as code, configuration management, troubleshooting

## Achievements

### Lang Biang Farm Digitization | [Swinburne Akathon 2023 - 3rd Runner Up](#) | [Link to Doc](#)

Sep 2023 - Dec 2023

- Resolved genuine business issue by developing a 4-month strategy for transitioning to a tech-savvy operation.
- Consulted on IoT sensors and intelligence systems to automate and recommend actions for livestock and crops.
- Delegated tasks cross-functional Agile team using Jira and Confluence to design database and critical features.

## Professional Reference

### Dr. Nguyen Thien Bao

Director and Founder, HBB Tech

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### Dr. Thomas Hang

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