

# TRI MAI-QUOC

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Ho Chi Minh, Thu Duc City - Vietnam

## OBJECTIVE

Passionate about Computer Science, I am seeking an entry-level position that allows me to apply my programming, problem-solving and analytical thinking skills to drive innovation and deliver results. I am committed to continuous learning and professional development to excel in my career.

## EXPERIENCE

### • Tego Global., JSC

April 2024 - July 2024 (3 months)

Software Engineer Intern

Ho Chi Minh, Vietnam

- **Technical Stack:** TypeScript, NestJS, Prisma, PostgreSQL
- Played a pivotal role in a team with **6** members to implement an internal, scalable **Content management system** solution, might be supporting up to **+100 users at the same time**, with slow latency.
- Employed **event-driven programming** in combination with **asynchronous** techniques to optimize web operations, achieving a **50%** improvement in site performance.
- Integrated **Google Analytics service** to generate comprehensive reports and **real-time** dashboards to visualize user interaction data, capture detailed insights into user activities, including page views, clicks, form submissions, and other key interactions.
- Facilitated seamless integration of the **SaaS** as Slack with existing systems, achieving a big reduction in notification latency, ensuring timely delivery of notifications.
- Implemented **cron-based** scripts to schedule and automate data crawling from third-party public APIs, reducing manual data retrieval time by **100%**, ensuring up-to-date information and increasing data freshness by **50%**.

## EDUCATION

### • Ho Chi Minh University of Technology

Sep 2021 - Present

Bachelor of Engineering (Computer Science)

Ho Chi Minh, Vietnam

- GPA: 3.50/4.00

## PROJECTS

### • Operating System Simulation: [A simulation of a basic kernel]

March 2023 - June 2023

Tools: [C, Makefile, Git, Shell Scripting, GNU/Linux]



- Collaborated with others to develop a simulation of a simple Operating System (OS) by implementing asynchronous & synchronous theories.
- Designed, and simulated major components in a simple operating system: **scheduler**, **synchronization**, related operations of **physical memory** and **virtual memory**
- Used GNU/Linux libraries in combination with **POXIS standards** to build the simulation. Besides that, we also use **Makefile** for controlling and building the source code more effectively.

### • SmartFarm IoT: [Multi-disciplinary project of CS and CE]

Jan 2024 - May 2024

Tools: [Flutter, ExpressJS, MySQL]

[ ]

- Designed, implemented, and optimized entry-point APIs and functions for a NodeJS runtime server, enabling communication with both mobile and edge devices through **MQTT** and **HTTP** protocol, resulting in an **80%** improvement in response latency compared to using only the pure Adafruit server.
- Integrated Computer Vision to detect the pests and diseases in leaves with an accuracy up to **82.35%**
- Designed and optimized the database, reducing data redundancy and improving query efficiency.

## SKILLS

- **Programming Languages:** C/C++, Python, JavaScript, Java, Shell Scripts
- **Web Technologies:** NodeJS, NestJS, ExpressJS, Spring Boot, Prisma, React, HTML/CSS
- **Database Systems:** MySQL, PostgreSQL, MongoDB
- **Data Science & Machine Learning:** Scikit-learn, TensorFlow, PyTorch
- **DevOps & Version Control:** Git, GitHub, Docker
- **Mathematical & Statistical Tools:** R, MATLAB

CERTIFICATIONS

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- Google: **Google Cybersecurity Professional Certificate** *June 2023*
- Standford University: **Machine Learning Specialization** *July 2024*
- Udemy: **Flutter & Dart - The Complete Guide** *In progress*
- Udemy: **Linux Administration: The Complete Linux Bootcamp** *In progress*
- Udemy: **Cisco CCNA 200-301 - The Complete Guide** *In progress*

ADDITIONAL INFORMATION

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**Languages:** English (*Intermediate level*), Vietnamese (*Native level*)