

TRI MAI-QUOC

+84327204690 | mtri0162@gmail.com | [in](#) Tri (Quoc) Mai | [mtriSE](#)

Thu Duc, Ho Chi Minh 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.

EDUCATION

• Ho Chi Minh University of Technology

Computer Science (Bachelor of Engineering)

Sep 2021 - Present

Ho Chi Minh, Vietnam

- GPA: 3.50/4.00
- Relevant Coursework: Programming Fundamentals, **Advanced Programming**, **Data Structures and Algorithms**, **Operating Systems**, Computer Network, **Database Systems**, Principles of Programming Languages, **Web programming**, **Software Engineering**,

EXPERIENCE

• Tego Global., JSC

Software Engineer Intern

Jan 2024 - July 2024 (6 months)

Ho Chi Minh, Vietnam

- **Technical Stack:** JavaScript, NestJS, Prisma, PostgreSQL
- Played a pivotal role in a team with **6** members to implement an scalable internal platform.
- 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%**.

PROJECTS

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

March 2023 - June 2023

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



- Designed and implemented the scheduler with **Multi-Level Queue (MLQ)** policy used in Linux kernel.
- Designed and simulated the **memory mapping** between CPU and RAM for each process
- Demonstrated the **physical memory** in virtual and implemented the **swapping** mechanism
- Implemented the **paging-based address translation** in a single-level paging system
- Leveraged **ANSI C** libraries in combination with **POXIS standards** to build the simulation.
- Automated the build process using **Makefile** for efficient project compilation and management

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

Jan 2024 - May 2024

Tools: [Flutter, ExpressJS, MySQL]



- Integrated **Computer Vision** to detect the pests and diseases in leaves with an accuracy up to **82.35%**
- 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.
- Designed and optimized the database, reducing data redundancy and improving query efficiency.

ADDITIONAL INFORMATION

Languages: English (**800 TOEIC**), Vietnamese (*Native level*)

SKILLS

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

CERTIFICATIONS

- Google: [Google Cybersecurity Professional Certificate](#)
- Stanford University: [Machine Learning Specialization](#)
- Udemy: [Flutter & Dart - The Complete Guide](#)
- Udemy: [Linux Administration: The Complete Linux Bootcamp](#)
- Udemy: [Cisco CCNA 200-301 - The Complete Guide](#)