TRI MAI-QUOC

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in Tri (Quoc) Mai | 🞧 mtriSE

Ho Chi Minh, Thu Duc City - Vietnam

OBJECTIVE

Seeking a challenging position in Computer Science to leverage my expertise in Software Development. Aiming to contribute to innovative projects at the intersection of being infatuated with math & technologies and practical problem-solving in fields such as optimizing & development methodologies.

EXPERIENCE

• Tego Global., JSC [�]

April 2024 - *July* 2024 (3 months)

Ho Chi Minh, Vietnam

Software Engineer Intern

- 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 Slack bot API 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]

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- 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]

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- 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
- Web Technologies: 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

Certification A	Month Year
Certifying Body: Certification B	Month Year
Certifying Body: Certification C	Month Year
Certification D	Month Year

ADDITIONAL INFORMATION

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