Tri Mai-Quoc

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SUMMARY

Aspiring computer science with over 3 months of internship experience in developing and maintaining software applications. Proficient in programming languages such as C/C++, Python, and TypeScript, with a solid understanding of data structures & algorithms and problem-solving. Highly motivated, quick learner, and eager to contribute to innovative software projects while continuously expanding my technical skills with experience in assisting seniors with Agile development methodologies.

EDUCATION _

Ho Chi Minh City University of Technology

Bachelor of Engineering, Computer Science. CGPA 3.5/4.0

Ho Chi Minh City, Vietnam **2021 September - 2025 June** (*Expected*)

Certifications

• Flutter & Dart - The Complete Guide (in progress)

• Linux Administration: The Complete Linux Bootcamp (in progress)

• Cisco CCNA 200-301 – The Complete Guide to Getting Certified (in progress)

• Google Cybersecurity

Udemy Google LLC

Udemy

Udemy

EXPERIENCE _

Tego Global., JSC

April 2024 – July 2024 (3 month)

Software Engineer Intern - Backend Developer

TypeScript, NestJS, Prisma, PostgreSQL, Google Service

- 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%.

SKILLS & INTERESTS _

Technical Skills:

- $\bullet \ \textit{Programming Languages: } \mathbf{C}/\mathbf{C}++, \ \mathbf{Python, JavaScript, TypeScript}, \ \mathrm{Dart, Haskell, } \ \underline{\mathsf{LATE}}\mathbf{X}, \ \mathrm{Markdown}$
- Tools: Visual Studio Code, MySql Workbench, Microsoft Visual Studio, Docker
- Operating System: Windows, GNU/Linux
- Frameworks/Library: NestJS, ExpressJS, Flutter, Prisma, ReactJS, Django, Scikit-learn
- Database System Management: MySQL, PostgreSQL
- \bullet Management

Language: Vietnamese (*Native*), English (*Intermediate*)

ACADEMIC PROJECTS

Operating System Simulation

C, Makefile, Git, Shell Scripting, GNU/Linux

Leader

- 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)

Flutter, ExpressJS, MySQL

Member - Application Developer

- 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 AI 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.

LEADERSHIP & ACTIVITIES __

$\begin{array}{c} \textbf{HCMUT EE Machine Learning \& IoT Laboratory} \\ \textit{Student Team} \end{array}$

Ho Chi Minh University of Technology - VNU October 2023 - Present

- Prepared, reorganized and reviewed documents for the theoretical presentation of machine learning models in IATEX
- Collaborated with the other **3 team members** in the team to demonstrate machine learning models and assessed them for solving problems such as Object Detection, Image Classification,...

Bach Khoa - Dynamic Resources Team Member

Ho Chi Minh University of Technology - VNU

January 2022 - November 2022

• Coordinated with 3 teams and Ho Chi Minh Communist Youth Union to accomplish and launch volunteer events for students like Blood Donation, Youth Month,...