LUU NAM DAT

Birthyear: 2004 (20 years old)
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Education

University of Science - VNUHCM   **October 2022 – Today**
Bachelor of Computer Science   *Ho Chi Minh City, Vietnam*

Areas of Expertise

- Algorithm Development
- Mathematic Applications
- Computer Vision
- Systems Programming
- Computer Architecture
- Compiler Utilization
- Cross-platform
- Cloud Computing

Experience

Kc97ble (Free Contest)   **October 2021 – October 2022**
Backend Developer   *Ho Chi Minh City, Vietnam*

- Maintainer of a web service that facilitates the renowned competitive programming contests.
- Acquired proficiency in Typescript, NodeJS, and RESTful API development.
- Demonstrated strong version control skills with Git, effectively collaborating in complex code bases, and consistently producing clean and high-quality source code.

SiGlaz VN Ltd.   **October 2022 – Today**
Research and Development Engineer   *Ho Chi Minh City, Vietnam*

- Wrote and maintained high-performance, lightweight, cross-platform libraries for demanding computer vision projects.
- Displayed versatility in multi-platform, multi-language programming environments.
- Developed expertise in comprehending and creating complex technical articles and documents, contributing to the knowledge base of the organization.

Remarkable Solo Projects

EuphoAFIS | *C++, CMake, Clang+LLVM, Unix, Windows, No 3rd-party*   **2023 – 2024**

- A platform-independent, highly accurate and performant automatic fingerprint identification system, optimized to the micro-architecture level of each target device.
- Is capable of performing precise one-to-many matching within 1 second, in a database of 5 million fingerprints.
- Was deployed on Debian Linux Servers, Windows Servers, MacOS Servers, and AWS.
- At SiGlaz VN Ltd., I was the sole developer and maintainer of this system until its first stable release.

Fingerprint Minutiae Extractor | *C#, .NET Core, .NET Framework, Unix, Windows, No 3rd-party*   **2023**

- A robust and reliable fingerprint feature extraction library, designed for .NET cross-platform development.
- Has excellent resistance to noises and scratches; Is unaffected by the impact of pressure on the fingerprint impression; Has great tolerance to low-quality fingerprint images; Et cetera.
- At SiGlaz VN Ltd., I was the sole developer and maintainer of this library until its first stable release.

Technical Skills

Has profound knowledge of the language and the compilers of: C++
Proficient at: C#, Python, Java, Typescript, Javascript, also front-end design tools
Technologies: Linux, Windows, Cloud Computing
Documentation Tools: Typst, LaTeX, (R) Markdown, Slides,...

Extracurricular

Competitive Programming   **January 2021 – October 2022**
                                                                     Ho Chi Minh City

- Accomplished outstanding achievements in regional academic competitions.
- Possesses competent experience in international online tournaments.
- Proven versatility in both solo and team-based competitive programming. Additionally, I can be a good teacher!