Bùi Huy Giáp

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Education

VNU-HCM University of Science, HCMC, Vietnam   *2023 - 2027*
High-quality program, Faculty of Information Technology

VNU-HCM High School for the Gifted, HCMC, Vietnam   *2020 - 2023*
Honors Class, Computer Science

Skills

- Programming languages: C, C++, JavaScript, TypeScript, Python, Rust
- Markup languages: HTML/CSS, Markdown, LaTeX
- Frameworks: PyTorch, React, Svelte, FastAPI, Django, Ruby on Rails
- Tools: Linux, Git, GitHub, VSCode, (Neo)vim, NixOS
- Languages: English (fluent, 8.0 IELTS), Vietnamese (native speaker)

Experiences

Robotics & IoT Club HCMUS | Research intern   *Jun 2022 - Sep 2022*
- Worked in a 3-month internship program researching about Natural Language Processing with a team of 6 interns.
- Planned for the development of a full-stack web application for reading stories with AI text-to-speech technology, distributed the workload, and supervised the team's progress.

The Gifted Battlefield | Software engineer, DevOps   *Jan 2021 - May 2023*
- Deployed and maintained multiple web applications and made improvements when requirements changed.
- Collaborated in a student organization department and helped new members get up to speed.

Awards

First place | HCMUS CTF 2024   *Dec 2024*
Second place | Thach Thuc 2024 academic competition   *Apr 2024*
First place | HCMC AI Challenge 2023, high school division   *Sep 2023*

Publications

- "Zero-shot Video Retrieval using CLIP with Temporally Ordered Multi-query Scoring", SoICT 2023 (link)
- "A cross-domain and subject-centric approach towards the memorability prediction task", MediaEval 2023 Workshop (link)

Projects

2048 TDL | Machine Learning, System Programming   *May 2022*
- Trained a powerful C++ 2048 AI with a variant of temporal difference learning algorithms.
- Applied many performance optimization techniques, such as multi-threading, compiler intrinsics, bit manipulation, and template meta-programming, for faster training and inference.

Repalette | Web Development, Image Processing   *Jan 2023*
- Built a web application and command-line interface for changing images' color palette to a specific theme.
- Utilized the browser's native image rendering capability and a WebAssembly module written in C for highly efficient.
- Open-sourced the project that garnered significant user engagement and received numerous stars on GitHub.