

Nguyen Huy Vu (Josh)

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Final-year student working on systems and developer tools in Rust, Python and C++. Work includes video pipelines, programming language implementation, and open-source contributions.

Open to relocation to Ho Chi Minh city or remote roles.

Can Tho University | Can Tho, Vietnam

B.S. in Computer Science (Expected Nov 2026)

Languages: English (IELTS 8.5), Vietnamese (native)

PROJECTS

repo-context | Rust, Tree-sitter, RustPython

- Built a CLI tool that converts repositories into context packs with file ranking, chunking, and secret redaction.
- Rewrote the tool from Python to Rust and reduced export time by 5.5-5.8x while preserving output.

muninn | Rust, Bytecode VM, Compilers

- Created a statically typed programming language with a stack-based VM and bytecode compiler.
- Built the compilation pipeline: parsing, semantic analysis, type checking, bytecode generation.

focus-lock-rs | Rust, Tauri, Svelte, ONNX Runtime, Tokio

- Created a desktop app for vertical video cropping with YOLOv8 and ArcFace.
- Built a video pipeline with bounded channels, SIMD acceleration, and 2D Kalman filtering to reduce crop jitter.

OPEN-SOURCE CONTRIBUTIONS

Tiled Map Editor | C++, Qt

- **Reduced** animated tile marker opacity during terrain editing in the tileset view.
- Change was merged upstream and credited in the project's **release notes**.

RustPython | Rust

- **Fixed** type creation logic and preserved the caller-provided namespace to match CPython.
- **Fixed** SyntaxError constructor validation and rejected invalid location tuple shapes to match CPython.

PROGRAMS & HACKATHONS

Backend Lead & Finalist, NAVER Vietnam Hackathon

Dec 2025

- Worked on the product planning and backend architecture for a shopping assistant using NAVER HyperCLOVA.
- Built SSE streaming, MongoDB caching, and Docker deployment; coordinated the team.

1st Place Winner & Team Lead, KENTECH WFK Program

Jul 2025

- Built a film-poster classification pipeline that placed 1st among 15+ teams.
- Balanced a 90,000+ image dataset to fix class imbalance.

OTHER EXPERIENCE

STEM Mentor, Fulbright University Vietnam & U.S. Embassy

Feb 2026 – Present

- Supported students in a STEM initiative building community projects across 100+ teams.

Head of HR & Rapporteur, Mekong River Estuary Model UN

Mar 2025 – Dec 2025

- Managed operations; documented proceedings, and interpreted English–Vietnamese for 100+ participants.

Founding Member & Speaker, CTU GreenEng

Jun 2023 – Sep 2023

- Co-launched a sustainability initiative, organized 6+ workshops, and delivered a guest talk to 1,000+ students.

English Teacher, Gia Viet English Language Center

Mar 2023 – Aug 2025

- Taught academic English to K12 students and professionals with a focus on writing, structure, and feedback.