

# Nguyen The Kien

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I'm a mid-level software engineer advocating for safe, modern programming languages like Rust and Go to replace C/C++ in new projects.

I maintain two public-source projects written in Rust and Nuxt, each with over 10k lines of code. I also work with an engineering team of five people for a private contractor, where I'm responsible for the frontend React codebase.

As a hobby, I maintain a home server and write desktop/web applications and automation tools in Go during my free time, all available on my GitHub page.

EDUCATION	<b>University of Science and Technology of Hanoi</b> Bachelor's Degree   3.0 GPA Information and Communication Technology	Hanoi, Vietnam 2021 - 2024
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TECHNICAL SKILLS	<ul style="list-style-type: none"><li>• <b>Languages:</b> Go, Rust, JavaScript/TypeScript, Python, Java, Kotlin, C#, ...</li><li>• <b>Frameworks, libraries:</b><ul style="list-style-type: none"><li>▸ Gin/Echo/Std (Go), Axum (Rust), Express.js (Nodejs), ...</li><li>▸ Jetpack Compose (Android), React, Vue, Nuxt, React Native/Expo, ...</li><li>▸ SQLite, PostgreSQL, MongoDB, ...</li></ul></li><li>• <b>System Admin:</b> Managing a Linux home server.</li><li>• <b>Tools:</b> Linux, Git/CI/CD (GitHub), Docker/Podman, ...</li></ul>
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HIGHLIGHT	<b>Artefact Decoder</b>	Personal Project   January 2025
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PROJECTS	<ul style="list-style-type: none"><li>• A JPEG decoder focused on producing artifact-free images.</li><li>• Originally written in C, I reimplemented it in Rust and optimized it using SIMD and parallel processing, resulting in nearly three times faster performance.</li><li>• I also developed a progressive web app on top of it using the Nuxt framework, which can be used directly in the browser.</li></ul>
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<b>Pediatric Growth Platform</b>	Team Project   August 2024 - <i>present</i>
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- A platform for connecting parents with pediatric and fitness trainers to help their children grow taller.
- I work as the lead engineer for the parent-facing frontend client in a team of five engineers.
- Initially, we developed the platform in Expo/React Native to target Android, iOS, and web, later we migrated to React due to technical requirements and constraints.

<b>Comic Media Server</b>	Team project   October 2023 - <i>present</i>
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- A self-hosted comic media server written in Rust that is highly optimized for performance.
- Originally came up as a group project for our university course, I'm now its sole maintainer.
- It's my motivation for learning and promoting the Rust programming language.

