

# Nguyen The Kien

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I consider myself beyond the junior phase but still have much to learn.

I spent most of my free time in high school teaching myself the fundamentals of computers. During my university first-year, I alternated between writing small software applications and learning the basics of algorithms. In the last two years, I have focused on creating production-grade quality software.

Currently, I am working on building frontends and image processing, and I also have plans to delve into machine learning soon.

EDUCATION	<b>University of Science and Technology of Hanoi</b> Bachelor's Degree 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 (Go), Axum (Rust), and 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 custom JPEG decoder built to output artifact-free images.</li><li>• Takes advantage of parallelization and SIMD intrinsics to maximize performance.</li><li>• Works on all platforms, including on the web through WebAssembly, enabling quick evaluation 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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- Linking parents, healthcare professionals, and fitness trainers to support children's growth.
- Offers health metrics from doctors, scheduling with trainers, newsfeed, and real-time messaging.
- Cutting-edge techs: Expo + React Compiler targets Android, iOS, and web.

<b>Comic Media Server</b>	Team project   October 2023 - <i>present</i>
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- Self-hosted comic server for publishing digital comics online, accessible on any platform via a Progressive Web App.
- Multi-user system using open standards for metadata management (ComicInfo.xml) and interoperability with 3rd-party clients (OPDS protocol).
- An algorithm to scan, detect, and differentiate files/folders between categories, series, and one-shots.
- Frontend inspired by Google's Material Design 3.