# Nguyen Tan Luc

Software Engineer

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## Summary

Software Engineer with a frontend focus, building complex web applications and scalable product experiences. Experienced in React, TypeScript, Next.js, and Node.js, with contributions to systems supporting 1,000+ AI models and products reaching 20,000 visitors and 70,000 page views. Focused on solving engineering challenges, optimizing performance, and delivering intuitive user experiences.

## Experience

**WALA ICT** Nov 2025 – Nov 2026

*Frontend Developer*

**CJ CinemaGen:** Internal AI creative platform to generate and edit images and videos for **20+ specialists**.

- Owned the Dynamic Models feature end to end on the existing workflow editor, rendering controls and connections for **1,000+ AI models** from their schemas, validating required connections, and mapping settings into payloads.
- Implemented graph based workflow execution by resolving upstream dependencies with topological sorting to compose execution payloads, and extended existing WebSocket handlers to synchronize execution states and results with the UI.
- Built **20 canvas tools** for image and video workflows, such as Crop, Compare, and Trim, with browser based media processing using Canvas API, MediaRecorder, and MediaStream.
- Optimized the canvas for smoother interactions than **Weavy** and **Flora**, supporting workflows with **200+ nodes**.

**CJ Admin:** AI platform administration portal for user management with Korean and English localization.

- Integrated user management APIs with Axios and TanStack Query, replacing mock data with paginated server data and adding update and delete workflows.
- Built server driven pagination and filtering synced with URL state, with filter resets and stale selection handling.
- Built reusable edit dialogs with record specific form resets, dirty field submissions, and query cache syncing.

**Nonono:** Multilingual AI services marketing website, independently developed on the frontend. Live demo

- Implemented **pixel perfect** screens from Figma designs across all **seven pages**, using reusable components and responsive layouts, with localized Korean routes and typed translations through next-intl.
- Built interactive workflow visualizations and animated interfaces with React Flow, Motion, GSAP, and WebGL, plus a validated demo request flow.

**ISB VIETNAM** Aug 2025 – Oct 2025

*Frontend Developer*

**University website:** Website for a Japanese institution.

- Developed **ten production pages** for the university website using Next.js, Redux, and Material UI.
- Integrated frontend components with backend services through a Backend-for-Frontend (BFF) layer.

**ONEMEDIC JSC** Mar 2025 – Aug 2025

*Fullstack Developer*

**MedicHIMS:** Patient intake and management system for hospitals and clinics.

- Built licensing, subscription, and pricing interfaces from Figma designs; integrated REST APIs and extended NestJS endpoints for related workflows.
- Implemented backend-driven billing workflow transitions and reusable schema-driven forms using React Hook Form, Redux Thunk, and React Query.

## Projects

**CafeMaps:** Café discovery platform to explore cafés by district, atmosphere, and purpose. cafemaps.net

- Conceived, built, and operated the platform solo as a café regular, across its Next.js frontend, NestJS API, and admin CMS, reaching **20,000 visitors, 70,000 page views, and 500 registered users**.
- Built a community submission flow that enabled users to contribute **50 cafés** to the platform.
- Implemented location-based café discovery using PostgreSQL/PostGIS.
- Migrated image hosting from Supabase Storage to Cloudinary and then Cloudflare R2 as storage and bandwidth needs grew.
- Handled deployment, domain management, and analytics for the live site.

**Grateful Forum:** Handwritten journal with a community feed on Next.js and Supabase. grateful.forum

- Designed, launched, and operated the product solo: a mobile first gratitude journal pairing typed or handwritten entries with a community feed, localized in Vietnamese and English.
- Developed a **custom handwriting editor** with Canvas 2D and Pointer Events, supporting pressure sensitive pen and highlighter strokes, eraser, undo and redo, and zoom and pan, with one shared renderer for the editor, viewer, and WebP export.
- Implemented the full stack journaling flow for text and handwriting entries: Zod validated Next.js Route Handlers, ink stored as JSONB in PostgreSQL, and public previews uploaded to Cloudinary with signed uploads.
- Modeled the Supabase schema across **6 tables and 10 SQL migrations** with foreign keys, check constraints, partial unique indexes, Row Level Security, and triggers, separating owner deletion from moderation hiding.
- Built timezone aware calendar analytics for streaks and monthly completion, and a community feed with optimistic reactions and bookmarks that roll back on failure.

## Education

**Ton Duc Thang University** Sep 2020 – May 2025
*B.S. in Software Engineering*

## Certifications

**TOEIC (Listening and Reading):** 875

## Technical Skills

**Languages**: JavaScript (ES6+), TypeScript, SQL, HTML, CSS

**Frameworks**: React, Next.js, Node.js, NestJS, Tailwind CSS

**State & Data**: TanStack Query, TanStack Router, TanStack Table, Zustand, Redux, Prisma

**UI & Forms**: React Flow, React Hook Form, Zod, Radix UI

**APIs & Databases**: REST APIs, Axios, WebSocket, PostgreSQL/PostGIS, Supabase

**Media & Localization**: Canvas API, MediaRecorder, MediaStream, WebGL, next-intl, i18next

**Tools & Platforms**: Git, Docker, GitLab CI, Vercel, Cloudflare R2, Playwright, ESLint, Prettier

**AI Coding Tools**: Claude, Codex, Gemini