Vinh Nguyen

Senior Fullstack Engineer · React / Next.js / TypeScript

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Fullstack engineer with 12 years building web products with React, Next.js and TypeScript, at Grab, Ninja Van and MessageMedia (Principal Engineer), and since 2025 as a freelancer shipping production apps end to end. I lead teams and mentor developers, and care about testing, developer experience and functional programming. I work with AI coding agents (Claude Code, Cursor) every day and guard their output with specs, ADRs, typed domain logic and automated UI tests, so speed never costs quality. How I build with agents →

TECHNICAL SKILLS

- **Frontend** — React (RSC), Next.js, Redux, Saga, Zustand, MobX, TanStack, SWR, a11y, Web Vitals
- **Styling** — Tailwind CSS, shadcn/ui, React Aria, Radix, AntD, Styled Components, Storybook
- **Testing** — Playwright, Vitest, Testing Library, Cypress, MSW, Jest, Percy, WebdriverIO
- **Backend** — Node.js, Express, GraphQL, REST, Postgres (Neon), MySQL, migrations
- **DevOps** — Docker, GitHub Actions, Vercel, Cloudflare R2, AWS (S3, Lambda, EC2, ECS, DynamoDB, CloudFront), Pulumi, Terraform
- **Languages** — TypeScript, JavaScript, Go, Python
- **AI & tools** — Claude Code, Cursor, MCP, agent workflows, spec-driven development, Vite, Bun, Webpack, Immer, Stripe API

WORK EXPERIENCE

Freelance Fullstack Engineer

Self-employed · Jun 2025 – Present · remote

Designed, built and ran production web apps for two businesses, solo and end to end: requirements, architecture, deploy and support.

- **[K-Studio · Sep 2026 – present]** Shipped in about 10 weeks with Claude Code: an operations platform for a ~20-person wedding photo studio, replacing its Excel cash book, Zalo shoot schedule and hand-computed payroll. Next.js (App Router), TypeScript and Postgres (Neon) on Vercel, used daily by admins, sales, photographers and couples. Live demo
- **[K-Studio]** Modelled the money rules as pure, unit-tested domain functions: cash and bank books, instalments, crew pay and frozen payroll periods. Each design decision is recorded as an ADR.
- **[K-Studio]** Built a photo-proofing gallery on Cloudflare R2 that replaced a paid SaaS, plus server-rendered PDF contracts, role-based access and a bilingual Vietnamese/English UI. AI-written code is gated by type-aware lint, Vitest and a Playwright suite that screenshots every page in both themes.
- **[Bảo Minh Gia Định · Jun 2025 – Apr 2026]** Built the insurance sales portal used by about 50 sales staff and their customers to sell and manage insurance contracts, in Next.js, TypeScript and Postgres. Ran it in production until the parent company moved its subsidiaries onto a group-wide platform.

Fullstack Engineer

BodiData · Jun 2024 – May 2025 · part-time, remote

Size-matching software for retail and uniform businesses, built to reduce apparel returns.

- Developed a sizing recommendation system with Next.js (RSC), TypeScript and shadcn/ui, accelerating customer decisions by 70% via data-driven algorithms.
- Introduced Cypress and Percy for end-to-end and visual regression testing, reducing QA cycles from 1.5 days to 3 hours.
- Migrated two legacy Next.js services from the Pages Router to the App Router, improving server-side rendering performance by 20% and streamlining developer workflows.

Principal Engineer

MessageMedia · Oct 2021 – May 2024 · full-time, Ho Chi Minh City

Customer messaging across SMS, social and 85+ integrations.

- Modernized a legacy Webpack and Redux React app with TypeScript, Immer and SWR, and optimized HubSpot data sync to DynamoDB via Lambda, reducing response time by 30%.
- Introduced functional programming, migrated class components to function components with custom hooks, and strengthened integration testing with Testing Library and MSW, cutting developer onboarding time by 30%.
- Mentored 7 developers and established coding standards for React and TypeScript.
- Replaced interval-based API polling in the mailbox with SWR, removing custom hooks and Redux state and reducing API request volume by 50%.

Senior Engineer & Team Lead

Dwarves Foundation · Ninja Van · Grab · Nov 2017 – Sep 2021 · full-time, Ho Chi Minh City

- **[Dwarves Foundation · Jan 2020 – Sep 2021]** Led a team of 8 frontend developers replacing a UK client's legacy Windows system with React web apps and a Node.js GraphQL BFF, improving system response time by 20%.
- **[Dwarves Foundation]** Integrated a responsive payment portal for a Malaysian e-commerce client with React, Tailwind CSS and the Stripe API, raising payment completion by 15%.
- **[Ninja Van · Jul 2018 – Dec 2019]** Built an Electron app for e-weighing device integration and Cross Border portal features with React, Node.js and Next.js, automating 50% of manual processes behind a TypeScript BFF and design system.
- **[Ninja Van]** Replaced Redux and Immutable with Immer and Hooks, and coached the team on Testing Library and MSW, raising test coverage from 20% to over 70%.
- **[Grab · Nov 2017 – Jun 2018]** Led a team of 3 building a gift-point exchange web app and an internal rental tool with React, TypeScript, Go and AWS, cutting operating costs by over 50%.
- **[Grab]** Introduced Cypress and functional patterns, raising test coverage to ~95% and cutting release testing from 2 days to 1.

Software Engineer

NashTech · Aug 2014 – Oct 2017 · full-time, Ho Chi Minh City

- Built web portals with AngularJS, .NET and SharePoint for an advertising client.
- Led the team's move to React and Redux, upskilling developers in modern frontend practice.

EDUCATION

Bachelor's degree in Computer Science

Ho Chi Minh City University of Science · 2014