NGUYEN DANG HUY

Senior Fullstack Engineer | TypeScript (React/Next.js · Node.js) · Agentic Software Development

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CAREER GOALS

Senior Fullstack Engineer with 5+ years of software development experience, specialized in the TypeScript stack (React.js, Next.js, Node.js) and able to design and deliver applications end-to-end, from UI and APIs to databases and deployment on self-managed Linux servers. Applies AI-assisted, agentic software development in production work with Claude Code and Codex, following the AI-DLC approach with Harness Engineering and Agent Guardrails. Experienced in Product Development (social, e-commerce and logistics platforms) and Modernization, technical solution design and code review.

AGENTIC SOFTWARE DEVELOPMENT

AI-DLC	Applied the AI-Driven Development Life Cycle in production work: agent proposes plan → human reviews and approves → agent implements in small units → automated tests → code review before merge.
Harness Engineering	Designed the working environment for coding agents: **CLAUDE.md / AGENTS.md** project context, custom **skills & slash commands**, **MCP** server integrations, and lint / type-check / test feedback loops so agents verify and fix their own output.
Agent Guardrails	Configured **permissions** (allow/deny rules) and **hooks** to block risky commands and enforce checks; mandatory human review and CI gates before code reaches the main branch.
Tools	**Claude Code**, **OpenAI Codex** for planning, implementation, refactoring, test generation and code review across the full stack
Impact	**Accelerated delivery** to go-live with an agentic workflow.

WORK EXPERIENCE

August 2025 - Present

NTQ Solutions
React.js/Next.js Developer
Project: Social Networking Platform | **Team:** 20 members
Role: Frontend Developer | **Tech:** React.js, Next.js, TypeScript, Redux Toolkit, Zustand, TanStack Query, Tailwind CSS, Socket.IO

- Developed real-time messaging features (typing indicators, read receipts, message history) with Socket.IO, handling both client state and real-time event flow.
- Built reusable React components and custom hooks shared across application modules, reducing duplicated logic.
- Managed server and client state using TanStack Query, Redux Toolkit and Zustand.
- Worked closely with the Backend team on API contracts and data flow; collaborated with QA and UI/UX to analyze requirements, estimate tasks and deliver features in Agile sprints.
- Reviewed pull requests to maintain coding standards; troubleshot performance, responsive and cross-browser issues.
- Applied an agentic development workflow (Claude Code, Codex) with project-level harness and guardrails in daily development.

June 2023 - August 2025

MaxTrust
Frontend Developer
Project: E-Commerce & Logistics Management Platform | **Team:** 7 members (2 FE, 2 BE, 2 QA, 1 BA)
Tech: Next.js 13+, TypeScript, Tailwind CSS, Ant Design, Redux Toolkit

- **Product Development:** designed the technical solution and architected the Next.js App Router structure with Server/Client Components separation for optimal performance.
- Applied SSR/SSG strategies in Next.js to improve performance, SEO and initial page rendering; improved Lighthouse scores.
- Built a Chrome extension for multi-platform product selection (Shopee, Lazada, Tiki).

November 2021 - April 2023

VelaCorp Company
React JS Developer
Projects: Logistics Management System & E-Commerce Platform
Tech: React.js, TypeScript, Redux Toolkit, Tailwind CSS, SASS, Ant Design, WebSocket

- Built an admin portal for customer data management with role-based access control (RBAC), protecting sensitive data by permission level.
- Implemented a real-time notification system for policy updates using WebSocket.
- Developed shopping cart and checkout flow with complex state management using Redux Toolkit.
- Created a multi-platform product aggregation interface (Shopee, Lazada integration).
- **Modernization:** migrated the state layer from legacy Redux to Redux Toolkit, reducing boilerplate by 50%.
- Achieved 100% mobile responsiveness across 15+ pages with a mobile-first approach.

June 2021 - November 2021

VMO Company
React.js/Node.js Developer
Tech: React.js, Node.js, Express.js, Blockchain, Smart Contracts

- Built RESTful APIs with Node.js/Express.js for querying blockchain data.
- Developed a token creation platform using Ethereum smart contracts with a React.js frontend.
- Fixed production bugs and improved frontend performance for satellite projects.

PROFESSIONAL SKILLS

Frontend Core	React.js (5+ YoE, since 2021), Next.js, Vue.js, JavaScript (ES6+), TypeScript (Advanced), HTML5/CSS3
Backend & APIs	Node.js (Express.js), RESTful API design & integration, Socket.IO, WebSocket, Next.js Server Components / Streaming SSR
Databases	PostgreSQL, MySQL, MongoDB
DevOps & Cloud	Docker, CI/CD with GitHub Actions, Vercel; deploying fullstack apps (Node.js + database) on self-managed Linux servers, SSH
Security	Role-based access control (RBAC), authentication flows, protected routes
State Management	Redux Toolkit, Zustand, Context API, TanStack Query, Custom Hooks
Styling & UI	Tailwind CSS, SASS/SCSS, Styled Components, Ant Design, Material-UI, Framer Motion
Performance	Code splitting, Lazy loading, Bundle optimization, Web Vitals, Lighthouse, SEO optimization, SSR/SSG
Testing	Unit tests for React/Next.js components, hooks and utilities; integration and E2E tests for user flows and API interactions using Vitest, Jest, React Testing Library and Playwright.
Tools	Git, GitHub, GitLab, Webpack, Vite
AI & Automation	OpenAI/Gemini API integration, AI chatbot UI, prompt engineering, workflow automation, data extraction, internal tool automation.
Soft Skills	Technical solution design, code review, mentoring junior developers (3+ years), Agile/Scrum
Language	**Tiếng Anh:** Trung cấp (Đọc hiểu tài liệu kỹ thuật tốt | Viết: Tốt | Nghe/Nói: Cơ bản)

FEATURED PROJECTS

10 Jan - 24 Jan

Personal Portfolio & Live Projects | https://www.huyito.dev/

AI Agent Platform | Modern AI Assistant Interface
Tech Stack: Next.js 16.1, TypeScript, Framer Motion, Tailwind CSS, Vercel

- Implemented **Server Components** and **Streaming SSR** for optimal performance and real-time AI responses.
- Achieved **98 Lighthouse score** with optimistic UI patterns and zero layout shift.
- Fully responsive with advanced animations using **Framer Motion** for a smooth chat experience.
- Deployed with a **CI/CD pipeline** (GitHub Actions + Vercel).