Nguyen Hai Trinh

Frontend Engineer

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Professional Summary

Frontend Engineer with 4+ years delivering high-impact web applications — from trading platforms processing 30K+ daily records to multi-tenant healthcare systems. Specialized in React ecosystem, type-safe architectures, and developer tooling. Career goal: evolve from **Senior Frontend** (system design, best practices) → **Tech Lead** (product & engineering leadership) → **Software Architect** (large-scale system design).

Education & Languages

Van Lang University — B.S. in Software Engineering (2019–2024) | **English:** Intermediate (Used for all work communications)

Technical Skills

- **Languages:** HTML5, CSS3, SCSS, JavaScript (ES6+), TypeScript
- **Frontend:** React.js, Next.js, React Native, React Router, Redux Ecosystem (Redux Toolkit, Redux Thunk, Redux Saga), TanStack Stack (Router, Query, Table), Zustand, Apollo Client (GraphQL), Tailwind CSS, MUI, shadcn/ui, Ant Design, Styled Components, React Hook Form, Formik
- **Testing:** Jest, React Testing Library, Playwright
- **Backend:** Go/Gin, Express.js, Spring Framework, PostgreSQL, MySQL, MongoDB, Redis
- **Tooling:** Webpack, Vite, Rsbuild, Docker, Git, Bitbucket Pipelines, ESLint, Prettier, Biome
- **AI-Assisted Development:** Cursor Pro, Claude Code Max, Gemini CLI

Experience

Cognisian | Frontend Lead | Sep 2025 – Present

Caresa HIS — React 19 (TypeScript), TanStack Stack, Zustand, shadcn/ui, Tailwind CSS, React Native CLI, Go/Gin, PostgreSQL, Playwright

- **Led frontend development** for AI-powered healthcare information system — Turbo monorepo with 5 applications (clinic portal, patient portal, mobile app, backend services, E2E tests)
- **Architected type-safe RPC abstraction layer** — custom hooks with auto-generated TypeScript contracts from Go backend, seamless token lifecycle management, unified error boundaries — reducing API boilerplate by 70%
- **Designed domain-driven state architecture** using Zustand — 8 modular stores with clear separation of healthcare concerns enabling parallel feature development
- **Authored comprehensive HIS documentation** from domain expert inputs — clinical workflows, patient journey mapping, system architecture guides
- Contributed to **Go/Gin backend** development with PostgreSQL and Redis integration
- Set up **Playwright E2E testing** infrastructure for critical patient and clinic workflows

Bolt Technologies | Fullstack Engineer | Apr 2025 – Dec 2025

Nano Trading Platform — React 19, MUI, TailwindCSS, Vite, Apollo GraphQL, Socket.io, TradingView Advanced Charts

- **Owned frontend development** — architected entire frontend from scratch for Vietnam Commodity Exchange (MXV) licensed derivatives trading platform
- Implemented **Web Worker pipeline** for processing large-scale OHLC datasets (30K+ records/contract/day); integrated TradingView with custom datafeed supporting 7 timeframe resolutions
- Engineered **multi-endpoint Apollo GraphQL client** with dynamic service routing and real-time WebSocket updates
- Optimized production build with Brotli compression and manual code splitting, reducing bundle to **2.9MB**
- Deployed to production in **2 months**, onboarded **200+ active traders**

F1 Trading Ecosystem — Vue 3 (TypeScript), Pinia, Vite, PrimeVue, Spring Boot 3, MySQL

- **Owned** legacy fintech platform stabilization — resolved critical production issues: money sync, eKYC display bugs, data integrity problems
- **Refactored** bank account API with caching, reducing response time from **5s to 0.2s** (25x improvement)
- **Built** CMS admin dashboard (10+ modules) with self-service tools — account management, approval workflows, activity logs, Excel export
- Implemented **5-step account opening workflow** with eKYC integration and document validation

Eye Design Sydney | Software Engineer (Frontend Lead) | Dec 2024 – Dec 2025

KOMO Booking & Admin — React 18 (TypeScript), Redux Toolkit, MUI, Vite, Rsbuild, Stripe

- **Built from scratch** dual-application architecture (booking portal + admin dashboard) replacing legacy Vue/PHP system
- Architected **complete 7-step booking flow** with service selection, therapist matching, real-time availability, **Stripe payment integration**
- Implemented **React Big Calendar** scheduling with **WebSocket real-time updates** (Laravel Echo + Pusher)
- Designed **multi-tenant architecture** with subdomain-based routing for multiple salon locations (Australia & Vietnam)
- Set up **Docker multi-stage builds** and CI/CD pipeline for automated deployments

Water and Environment Solutions Singapore (WNE) | Frontend Developer | Nov 2023 – May 2025

IoT Platform (8TEN) — React 18, Redux Saga, Material-UI, Recharts, Google Maps, i18next

- Developed **dual-application IoT platform** (Customer Portal + Management Portal) for smart meter management serving buildings and cities
- Built **advanced analytics dashboard** with customizable widgets — real-time gauges, Sankey diagrams for leakage detection, Google Maps clustering
- Architected **Redux-Saga state management** with token refresh, request queuing on 401, CancelToken to prevent memory leaks
- **Upgraded Customer Portal to React 18**, resolved security vulnerabilities, **migrated UI** from Bootstrap to Material-UI
- Implemented **RBAC system** with 50+ permission types across 39 API service modules
- Built **comprehensive test suite** (81+ test files) using Jest, Enzyme, React Testing Library

ISB Vietnam | Frontend Developer | Dec 2022 – Nov 2023

Banking System (Japan) — Next.js 8 (TypeScript), Redux Saga, Reselect, Material-UI, Styled Components, Storybook

- Maintained features in **micro-frontend monorepo** with 3 independently deployable portals (Client, Banker, Corporate) via proxy routing

- **Maintained 50+ pages** for Japanese financial conglomerate's banking platform in **30-member cross-functional team**
- Conducted **manual testing on 100+ pages**, logging **100+ issues** including currency formatting and API inconsistencies
- Contributed to reusable UI components with **Storybook** documentation; supported **i18n** (Japanese/English)

Cybersoft Technology Co., Ltd | Software Engineer | Mar 2021 – Apr 2024 *(Part-time)*

Internal Systems — React (TypeScript), Redux, Redux Saga, Ant Design, .NET Core, SQL Server

- Maintained legacy systems, optimized code performance, implemented reporting dashboards and revenue tracking modules