

TRAN DOAN CHI THINH

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Results-driven Web Developer (4+ Years Exp.) specializing in robust, scalable digital solutions. I bring a systematic approach to the development lifecycle, prioritizing code quality and architectural stability. Passionate about tackling complex challenges across diverse domains, I leverage emerging technologies to build high-performance applications that drive business value.

EXPERIENCED

TRIDENT DIGITAL TECH | Software Engineer

7/2023 - Present

Offline-First Retail POS & Tax-Compliance Platform

(3/2025 - Present)

Offline-capable Flutter POS on Android terminals — the sales-capture layer of an MSME tax-compliance platform.

Tech Stack: Flutter · Dart · SQLite · Offline Sync · Android POS Hardware · REST APIs · ERP Integration · Thermal Printing · AI-Assisted Development

Responsibilities:

- Built offline-first sales capture with a local SQLite queue and idempotent, conflict-aware sync on reconnect.
- Implemented multi-regime tax calculation with version-pinned offline rates to prevent silent recalculation.
- Developed 58/80 mm thermal receipt printing with tax-status rendering, reprint watermarks, and void/refund handling.
- Integrated barcode scanning, stock-movement tracking, and product expiry into the sales flow.
- Built role-based UI/routing (owner, cashier, field agent) with OTP login, forced PIN change, and single-device binding.
- Connected the POS client to an ERP backend and tax-filing compliance middleware.
- Used AI assistants (Copilot, Cursor) to accelerate Flutter/Dart dev and debug sync edge cases.

National Electronic Identity System

(9/2025 - Present)

Front-end for a national-scale Electronic Identity System — Citizen Web Portal and Admin Dashboard.

Tech Stack: React (Next.js) · TypeScript · OIDC/OAuth2 · JWT · Redux · REST APIs · AI-Assisted Development

Responsibilities:

- Built the Citizen Web Portal with a scalable architecture and multi-step flows for Biometric Enrollment, Verification, and Profile Management.
- Optimized Admin Dashboard rendering for large datasets and added responsive operator features.
- Implemented secure auth (OIDC/OAuth2) with JWT, session timeouts, and protected routing.
- Integrated complex National Identity APIs with client-side data transformation and error handling.
- Used AI assistants (Copilot, Cursor) to speed up boilerplate, refactoring, and tests.

F&B platform connecting Consumers, Admins, and Merchants — POS app plus Web Portal with real-time features and SEO.

Tech Stack: React (Next.js) · TypeScript · SSR · WebSocket (Tencent Socket) · Redux · Custom React Hooks · SSO

Responsibilities:

- Built a POS web app handling real-time inventory, multi-tier vouchers, and offline-capable carts.
- Integrated Tencent Socket for sub-second order updates across Consumer, Merchant, and Driver apps.
- Boosted SEO and load speed via SSR and lazy loading, increasing merchant organic traffic.
- Built a reusable custom hook library (useFetch, useToast, useSocket) to reduce code redundancy.
- Implemented SSO and Federated Identity for seamless cross-platform login.

VTV Entertainment (vtvgiaitri.vn)

Front-end for a major VOD/OTT ecosystem with complex, high-load video playback.

Tech Stack: React (Next.js) · TypeScript · SSR · HLS.js · Video.js · IMA SDK · Adaptive Bitrate Streaming · DRM

- Engineered a scalable frontend to sustain high-concurrency traffic during live events.
- Built a custom player wrapper (HLS.js, Video.js) with adaptive bitrate streaming and DRM.
- Integrated IMA SDK for linear/non-linear video ads with optimized load times.
- Implemented SSR for dynamic video content, fixing indexing and improving search visibility.
- Refactored rendering to eliminate memory leaks and cut "Time to First Frame".

EDUCATION

Bachelor of Information Technology

PROFESSIONAL SKILLS

English (B2 - Working Proficiency) - Agile/Scrum Methodology - Cross-functional Team Collaboration.