

Viet Le

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, HTML, CSS

Frontend: React, Next.js, Tailwind CSS, Zustand, IndexedDB

Backend: Node.js, tRPC, PostgreSQL, Prisma ORM, REST APIs

DevOps & Tools: Git, GitHub Actions (CI/CD), Cloudflare R2, Jest/Vitest

ENGINEERING EXPERIENCE

CardLedger | Full Stack Software Engineer | Sep 2025 – Present

A production-ready Pokémon TCG portfolio tracker enabling users to manage, value, and search 21,000+ cards with zero-latency, local-first data access.

- Engineered a client-side search and filtering engine so collectors can instantly find any card regardless of connection quality, achieving **0.3ms filter latency and sub-2ms full-text search** across 21,000+ cards using IndexedDB and optimized Set intersections.
- Implemented dictionary-compressed JSON to keep the app responsive on low-end devices, reducing raw payload from 8MB to 3.5MB, halving `JSON.parse()` blocking time and **saving ~20MB of JS heap memory**.
- **Eliminated 20–30ms UI freezes** during rapid filtering and scrolling by refactoring the rendering pipeline with JIT denormalization via `react-virtuoso`, deferring object construction to viewport entry.
- Built a financial tracking dashboard with cost basis analysis, real-time portfolio charting, and data visualization, enabling collectors to accurately monitor ROI and price movements across their collections.
- Guaranteed data consistency during network failures by implementing optimistic UI patterns with automatic rollback using Zustand and tRPC, providing instant visual feedback while ensuring collection updates never silently fail.
- Eliminated runtime reliance on unstable external pricing APIs by designing a background sync pipeline using GitHub Actions to publish versioned, checksummed artifacts to Cloudflare R2, enabling clients to **atomically update cached card and pricing data** without downtime.
- Cut image serving costs to zero for **80,000+ card images** by pre-generating AVIF variants from 21,000 source images using Sharp and delivering optimized assets via Cloudflare R2, eliminating all runtime transformation overhead.

WORK EXPERIENCE

Tierra Mia Coffee Company | Barista | November 2022 – May 2024

Oakland, CA

EDUCATION

Laney College | Sep 2021 – Dec 2022

- Coursework in C++, Discrete Mathematics, Linear Algebra

The Odin Project | Full Stack Web Development Curriculum | Apr 2025 – Sep 2025

- Completed rigorous coursework in JavaScript, React, Node.js, and Backend Engineering