LE HUY

Full-stack Software Engineer | Backend-focused TypeScript

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GitHub | Portfolio

PROFESSIONAL SUMMARY

Software engineering student building resilient, end-to-end operational software with React, Next.js, TypeScript, and Node.js. Focused on cross-layer type safety, responsive component design, transactional data consistency, and automated release verification across web interfaces and backend services.

EXPERIENCE

Software Engineering Intern | Trung My Tay Ward People's Committee Jun – Aug 2026

- Engineered Form Management platform for municipal document workflows: a dynamic form-generation workspace with real-time browser preview and OpenXML export for 213 registered legal templates.
- Designed accessible, reusable form controls from Zod schemas, enabling non-technical administrative staff to input complex legal variables with instant client-side validation.
- Industrial Internship coursework evaluated and graded 10/10 (A+) by HUFLIT.

Freelance Full-stack Developer | PeaceNest Jul – Aug 2026 (concurrent)

- Delivered responsive customer booking flow (search → quote → hold → confirm) in Next.js 14, featuring real-time hold expiration countdowns, availability calendar views, and optimistic UI updates.
- Synchronized rapid frontend iterations with backend APIs by maintaining monorepo-wide shared TypeScript contracts, eliminating schema mismatches across client and server.

KEY PROJECTS

PeaceNest | Boutique Hotel Reservation Engine | github.com/lhcaps/Hotel

- Constructed full-stack guest portal and administrative management console in Next.js and NestJS, featuring role-scoped views, dynamic booking detail inspection, and live hold state tracking.
- Coupled front-end checkout steps with server-authoritative pricing snapshots and Redis-backed room holds, safeguarding against double-booking and stale price confirmation.
- Modeled relational booking lifecycles with Drizzle ORM migrations and background BullMQ workers for automated hold expiration reclamation.

Parkly | Smart Parking & Gate Operations | github.com/lhcaps/parkly

- Created real-time parking operator review console using React, shadcn/ui, Tailwind CSS, and i18n, integrating live Server-Sent Events (SSE) for lane status and device health monitoring.
- Developed low-confidence ALPR plate review workflow, allowing operators to manually inspect vehicle photos and resolve barrier opening decisions with full audit logging.
- Connected frontend operations to Express/Prisma API, utilizing a token-based Redis ownership lock and BullMQ outbox for background event processing.

Form Management | Legal Document Automation Platform | github.com/lhcaps/Form-Management

- Architected client-to-server document rendering flow: Zod schemas dynamically render React input controls, live DOM previews reflect edits instantly, and server compiles OpenXML DOCX documents.
- Integrated automated 213-form quality gate into development workflow, asserting slot consistency and passing 1,278 contract validation checks with zero blocking issues.

TECHNICAL SKILLS

TypeScript, JavaScript, React, Next.js, Tailwind CSS, shadcn/ui, Node.js, NestJS, Express, REST APIs, PostgreSQL, MySQL/MariaDB, Prisma, Drizzle ORM, Redis, BullMQ, Docker, Playwright, Vitest, GitHub Actions, Zod, SSE

EDUCATION & CERTIFICATIONS

HUFLIT | B.Sc. Information Technology (Software Engineering) | GPA 2.99/4.00 Expected 2027

- IELTS Academic 6.5 (Historical achievement, examined 2023)