

# TRAN DUC TAI

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## EDUCATION

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### HCMUTE

2022 - 2026

Computer Engineering, GPA: 3.0

## PROJECTS

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### PERSONAL PORTFOLIO & BLOG WEBSITE [Demo](#)

*Next.js, React, TypeScript, Supabase, NextAuth, MDX, Three.js, GSAP, Framer Motion, Tailwind CSS*

- Designed and developed a personal portfolio website featuring a blog, project showcases, notes section with AI-powered text-to-speech audio generation, and photo gallery
- Implemented email subscription system with verification flow, fuzzy search across all content, GitHub activity stats, and contact form
- Supports dark mode, responsive design, 3D interactive animations, and optimized with Vercel Analytics for production deployment

### PERSONAL PRODUCTIVITY & WORKSPACE PLATFORM [Demo](#)

*Next.js, React, TypeScript, Prisma, PostgreSQL, Tailwind CSS, Framer Motion, MDX, Shiki*

- Built a full-stack personal workspace platform with integrated bookmarks manager, multi-language vocabulary tracker, quotes collection, gradient generator, and calendar with lunar date support
- Implemented a service uptime monitoring system with automated cron health checks, response time tracking, incident management, and multi-channel notifications
- Developed a companion Chrome Extension (Manifest V3) to save bookmarks directly from the browser and an admin dashboard with full CRUD operations

### QUICKCV — PROFESSIONAL CV BUILDER [Demo](#)

*Next.js, React, TypeScript, Supabase, Tailwind CSS, html2canvas, jsPDF*

- Built a full-stack CV builder with multiple template styles including classic, Harvard, minimal, and modern layouts with real-time split-pane live preview
- Features drag-and-drop skill reordering, category-based skill management, customizable fonts, auto-bullet detection, and one-click PDF export with clickable links
- Supports cross-tab real-time sync via Supabase Realtime, auto-save, dark mode, and responsive design

### IOTX — LOWCODE IOT DASHBOARD PLATFORM [Demo](#)

*React, TypeScript, Vite, Shacn, Firebase, Supabase, Zustand, React Query, Recharts*

- Developed a lowcode IoT dashboard platform enabling users to build real-time monitoring interfaces through drag-and-drop with zero coding
- Features a CLI-based widget code generator, auto-generated settings UI, real-time data streaming, and interactive chart visualizations
- Includes unit testing with Vitest, Docker deployment, and ESP32 hardware integration for sensor data collection

### IOT FULL SYSTEM — REAL-TIME IOT MANAGEMENT SYSTEM

*C++/ESP-IDF, Vue 3, Nuxt 4, React Native, Expo, WebSocket, JWT, PM2, Cloudflare Tunnel*

- Built a full-stack IoT system spanning web dashboard, mobile app, and ESP32 hardware with bidirectional WebSocket communication
- Implemented real-time device control, sensor monitoring, automation rules with conditional triggers, and timer-based scheduling
- Features JWT authentication, process management with PM2, and secure remote access via Cloudflare Tunnel

### MINIMAL CHATBOT — AI CHATBOT APPLICATION [Demo](#)

*Python, FastAPI, SvelteKit, Svelte 5, TypeScript, UnoCSS, Docker*

- Built a full-stack AI chatbot with Python FastAPI backend proxying LLM API requests and a SvelteKit frontend
- Containerized with Docker and deployed with Cloudflare Tunnel for secure access

### FAST PROFILE — PROFILE GENERATOR WEB APP

*Next.js, React, TypeScript, Supabase, Tailwind CSS, Shadcn*

- Developed a profile/portfolio generator with shareable profile pages, customizable gradient styling, and QR code generation
- Features GitHub activity calendar integration, user authentication, and database persistence with Supabase

## SKILLS & INTERESTS

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**Frontend:** HTML, CSS, JavaScript, TypeScript, Tailwind, React, Next.js, Vue, Nuxt, Svelte

**Backend:** Node.js, Express, MongoDB, PostgreSQL, Supabase, Firebase, Docker, Cloudflare

**Tool & Other:** Vim, NeoVim, Git, GitHub, Ubuntu, Figma, Photoshop, Lua, Bash, GitHub Actions

**Interests:** Passionate software developer building scalable web applications. Skilled in modern technologies and committed to writing clean, efficient code.