

Justin Tom

Software Developer

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Full-stack developer shipping production web applications serving international school educators worldwide. Solo-maintain two Laravel platforms (EdVaults, HighFour) handling server provisioning, deployments, and incident response. Built Hanzilens, an AI-powered Chinese learning tool with a live Chrome extension. Passionate about self-hosting and AI-augmented workflows.

EDUCATION

Bachelor of Science in Computer Science

University of British Columbia, Kelowna, BC

2020–2024

EXPERIENCE

Freelance Software Developer

EdVaults, HighFour

Nov 2025 – Present

Remote

- Solo developer maintaining two production Laravel applications serving international schools
- Migrated HighFour from cPanel VPS to DigitalOcean with minimal downtime; handled DNS cutover and data integrity
- Manage infrastructure: server provisioning, deployment pipelines, database backups, incident response
- Navigate legacy WordPress/PHP (EdVaults) and clean Laravel (HighFour) architectures
- Deliver new subject offerings to EdVaults under tight school-year deadlines

IT Support Specialist

International Montessori School, Hong Kong

Sept 2024 – Present

Hong Kong

- Part of 3-person IT team supporting 150+ staff across 4 campuses and 1 HR office
- Built ticketing and work-order tracking system using Google Sheets, Apps Script, and JotForm
- Write automation scripts for marketing and admissions: data pipelines, analysis tools, slide generation

IT Intern

Virtuos Games

Summer 2023

Shanghai, China

- Rewrote internal email signature tool from Angular to React
- General IT support at AAA game development studio

PROJECTS

HanziLens

hanzilens.com | github.com/7ito/hanzilens

- Chinese learning tool (web + Chrome extension) that analyzes sentences into segments (), surfacing context-aware pinyin and definitions so learners understand sentence structure and acquire vocabulary naturally while reading
- Image OCR mode extracts Chinese text from screenshots/photos for instant analysis
- Clickable CC-CEDICT dictionary for on-demand word lookup
- *React, Express, TypeScript, SQLite, WXT, OpenRouter, MiMo V2 Flash*

soundcloud-tui

github.com/7ito/soundcloud-tui

- Terminal-based SoundCloud client/TUI for searching, browsing, and playing tracks.
- Built with Rust (Ratatui) and mpv for playback.
- Published cross-platform packages: AUR (soundcloud-tui), Windows binaries, and macOS support
- *Rust, Ratatui, OAuth2, mpv*

Clipset

github.com/7ito/clipset

- Self-hosted video platform for private communities; fills the gap between unlisted YouTube uploads and temporary screen shares, giving friend groups and communities a permanent home for videos and media
- GPU HEVC transcoding with timestamped comments ("check 0:47") and playlist curation
- Docker-first deployment; invite-only accounts via admin panel
- *React, TypeScript, Go, PostgreSQL, Docker, Nginx, HLS, NVENC*

SKILLS

Languages: JavaScript, TypeScript, Python, PHP, Go, Java, SQL

Frontend: React, Vite, Tailwind CSS, WXT (Chrome Extensions)

Backend: Node.js, Express, Django, Go, FastAPI, Laravel

Databases: MySQL, PostgreSQL, SQLite

AI/LLM: OpenAI API, LangChain, OpenRouter, Qwen, Gemini, Kimi

DevOps: Docker, Git, Linux, Nginx, HLS Streaming, DigitalOcean, AWS EC2