

Le Tran Gia Bao

✉ giabao.dev | 📧 gbaolt | 📧 gbaolt | 📍 Ho Chi Minh City, Viet Nam

EDUCATION

University of Information Technology, VNUHCM

Bachelor of Information Systems (Advanced Program)

Aug. 2023 – Present

Ho Chi Minh City, Vietnam

- **Language proficiency:** IELTS 7.0 (British Council)
- **Coursework:** Data Structures, Algorithms, Databases, Systems Design, Web Frameworks, Software Engineering

PROJECTS

Kyorbit | Personal project [↗](#)

Mar. 2025 – Present

TanStack Start, Better Auth, oRPC, PostgreSQL, Prisma, Socket.io

- Built a tournament management platform for organizers and arena officials, with an admin dashboard for athletes and brackets and a client for live scoring.
- Synchronized scores across arena devices with Socket.io so officials can follow the same match state during tournaments.
- Implemented configurable scoring rules for best-of-three matches, health and mana depletion, penalties, and tiebreakers, with automatic winner calculation.
- Built a type-safe API layer with oRPC, letting TanStack Query infer request and response types from server procedures.
- Guided Cursor Agents through a spec-driven, test-first workflow using custom engineering skills. Reviewed specs and acceptance criteria before implementation, then checked AI-generated tests and code against the requirements.

Dev4Room | Personal project [↗](#)

Sep. 2025 – Jan. 2026

Next.js, Better Auth, Arcjet, oRPC, PostgreSQL, Drizzle, AI SDK

- Built a developer Q&A platform with reputation-based voting, bookmarks, tag filters, and a keyboard-accessible search menu.
- Built the question and answer editor with Lexical, supporting rich-text editing, Markdown conversion, tables, and syntax-highlighted code blocks.
- Integrated GPT-4o-mini through Vercel AI SDK to check answer relevance and improve Markdown drafts.
- Implemented semantic search with OpenAI text-embedding-3-large and PostgreSQL pgvector; ranking questions, answers, tags, and users by cosine similarity.
- Implemented authentication with Better Auth and API protection with Arcjet for rate limiting and bot detection.

Fusionista 2.0 [↗](#)

June 2025 – Jan. 2026

React, TypeScript, Vite, Zustand, FastAPI, Docker, GCP

- Co-led frontend development for a video retrieval system on a 2-person frontend team within a 6-member maintainer group. Migrated JavaScript and Create React App to TypeScript and Vite.
- Connected the search UI to FastAPI services for CLIP semantic retrieval, temporal search, OCR, and speech transcript search. Containerized the frontend with Docker and deployed on GCP.
- Built an in-app canvas that sends sketches and prompts to a backend configured for Gemini 3 image generation. Users can search for video frames with generated images.
- Won the Best VBS Award at VBS 2026 and placed 5th among 300+ teams at HCMC AI Challenge 2025. Co-authored *Fusionista2.0: Efficiency Retrieval System for Large-Scale Datasets*, published at MMM 2026.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C++
Frameworks: React, Next.js, TanStack Start, Nest.js, Expo
Frontend: Tailwind CSS, shadcn/ui, Motion, TanStack Query, Zustand
Backend: oRPC, PostgreSQL, MongoDB, Prisma, Drizzle
Workflow & AI: Git, Docker, GitHub, Turborepo, Cursor, Codex, Claude

HONORS AND AWARDS

Best Video Browsing System Award 	Jan. 2026
<i>Video Browser Showdown (VBS 2026)</i>	
1st place at the international video retrieval competition held at MMM 2026, Prague, Czech Republic - System: Fusionista 2.0 Team: Fusionista Field: Video Retrieval	
Paper published at MMM 2026 	Jan. 2026
<i>32nd Intl. Conference on Multimedia Modeling (MMM 2026)</i>	
Fusionista2.0: Efficiency Retrieval System for Large-Scale Datasets	
Consolation prize, 5th place 	Nov. 2025
<i>Ho Chi Minh City AI Challenge 2025</i>	
- Finished 5th among 300+ teams - Team: TKU@Unicorn&Wheat Field: Multimedia Event Retrieval	