

Bryan Hu

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SKILLS

Languages: Python, TypeScript, JavaScript, Rust, Java, C++

Frameworks: React / Next.js, Svelte / SvelteKit, TailwindCSS

Databases: Supabase, PostgreSQL, SQLite

DevOps: Git, Docker, GitHub Actions, Vercel, CI/CD

Automation & Systems: Bash, Zsh, Selenium, Playwright, Scrapy

Spoken Languages: English (Native), Mandarin (Fluent)

PROJECTS

- **Wuzursched** *SvelteKit — Supabase — TailwindCSS*
Full-stack schedule comparison app, designed and shipped solo within a month
- **45** *Next.js — TensorFlow — Supabase — PWA*
Gamified workout app with AI pose-detection exercise tracking; led a team of four
- **billion** *TypeScript — 3 ★ — 3rd Place CAC 2025*
AI video feed app — 3rd Place, Congressional App Challenge 2025
- **Zyma** *Next.js — Supabase — TailwindCSS*
Attendance tracker built for a client in 12 hours with full auth and modern UI
- **FADAIG** *Python — 7 ★*
Arduino + USB HID bot that physically plays GamePigeon Word Hunt
- **Quillium** *TypeScript*
AI writing app with a novel revision system, robust architecture, inline Codex suggestions, and annotations
- **LJV** *Svelte — 2 ★*
60fps Lissajous curve visualizer via WebGL2, packaged with Tauri
- **aioudp** *Python — 18 ★*
Websockets-inspired async/await API for UDP in Python
- **unmarkd** *Python — 16 ★*
Configurable HTML-to-Markdown converter on PyPI
- **pyt2** *Jinja — 14 ★*
Python project template with CI/CD, linting, and auto-publish
- **idae** *Python — 11 ★*
PEP 723 script runner with auto virtual-env management

OPEN SOURCE CONTRIBUTIONS

- **VC Assist** — *CEO*
Student-run non-profit enhancing digital educational infrastructure at Valley Christian Schools. Built and maintained the full-stack platform (frontend, backend, web scrapers); later led a full frontend rewrite to improve performance and UX.
- **VCSD Club** — *Founder*
Founded the Valley Christian HS Software Development Club from scratch. Designed the club website, authored curriculum, and shipped restlock-holmes — an interactive game teaching REST APIs to beginners.
- **FRC Team 3256** — *Programmer*
Robot programming for 2024–2025 seasons: elevator subsystem, 3D simulation for driver practice, anti-tip logic, controller mapping, structured logging, and a competition scouting app built with Tauri 2.0.

MUSIC & PRODUCTION

- **Piano** (9 years) — CM Level 10, State Honors; USOMC Intermediate Baroque — 3rd Place, 2023
- **Trombone** (8 years) — HS Band & Jazz Band — 2nd Place, Folsom Jazz Festival 2025
- **Composer** — Published on Spotify, Apple Music, and MuseScore
- **Camera & Post Production** — Canon C200s, live switching, Final Cut Pro, Logic Pro, Darktable

AWARDS

- **USACO Silver** — USA Computing Olympiad, competitive algorithmic programming
- **picoCTF 2026** — **174th / 8,747** — Carnegie Mellon's national cybersecurity CTF covering binary exploitation, reverse engineering, cryptography, and web security
- **FRC Team 3256** (2024–2025) — Creativity Award (Champs), Excellence in Engineering, Innovation in Control, Engineering Inspiration ×2, Judges' Award, Regional Finalists