

Hao Pham

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SUMMARY

CS junior, who ships full-stack web apps solo and gets them to production. Strong in React and Next.js on the front end, Postgres and Supabase with row-level security on the back, and building real features on top of LLM and vision APIs. I build things people actually use, including a live app and a paying client's website.

PROJECTS

Verdant · Personal Finance Web App · verdant-finance.com March 2026

React, Vite, Supabase, PostgreSQL, Clerk, Vercel

- Built and shipped a personal finance app solo, live in production with **100+ waitlist signups**, running on about \$12 a year (domain only, everything else on free tiers).
- Put row-level security on every table with Clerk as the identity provider, so the database itself guarantees one user can never read another's data even if the front end breaks.
- Built a no-signup demo by minting a custom Supabase JWT in an edge function; restrictive RLS policies keep it read-only at the database level, and no service-role key ever touches the browser.
- Hand-rolled every chart in SVG (spline net-worth curve, dasharray donut) instead of pulling in a charting library, for a smaller bundle and full control over interactions.

Meal4Mood · AI Recipe Web App Jan 2026

Next.js 16, React 19, TypeScript, Three.js, Supabase, Anthropic Claude API

- Built a **full-stack AI recipe app** that turns your mood, a chosen cuisine, and what's in your fridge into a generated recipe.
- Used Claude two ways: a vision call that reads a fridge photo into a structured ingredient list, and a generation call that returns recipe JSON with a parse-retry so a bad response never breaks the UI.
- Built an interactive 3D globe with Three.js and React Three Fiber (50 country pins) so users pick cuisine by exploring instead of a dropdown.
- Scoped saved recipes per user with Supabase auth and row-level security; deployed to Vercel.

EXPERIENCE

HK Website Studio · Founder & Freelance Web Developer 2025 – Present

Client: Climate Essentials Heating & Cooling (licensed HVAC contractor) · Astro, Vercel, Cloudflare

- Designed and shipped a production site (climateessentialsac.com) for a paying client, built on Astro with zero client-side JavaScript by default for fast loads and strong SEO.
- Engineered the whole site around turning visitors into calls and quote requests, and wired the quote form through a third-party service so there's no backend to maintain.
- Set up the full pipeline: JSON-LD and Open Graph for search and sharing, optimized WebP imagery, auto-deploy to Vercel on push, DNS on Cloudflare.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, C#, SQL, HTML/CSS

Frontend: React, Next.js, Three.js / React Three Fiber, Tailwind CSS, Vite, SVG data visualization

Backend & Data: Node.js, Supabase, PostgreSQL (row-level security, edge functions), REST APIs, Firebase

AI / LLM: Anthropic Claude API (LLM + Vision), prompt design, structured JSON output

Auth & Infra: Clerk / OAuth / JWT, Vercel, Cloudflare, Git, Linux

EDUCATION

California State Polytechnic University, Pomona Expected May 2027

B.S. in Computer Science · GPA: 3.6 / 4.0

INVOLVEMENT

Member, Computer Science Society · Cal Poly Pomona (2024 – Present)

tech talks, hackathons, and industry networking events.