PATRICK YU

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EXPERIENCE

Co-founder & CEO at Teracast Networks LLC, Self-Employed **Sep 2024 - Jul 2026**

- Multi-site, pre-seed startup offering hosting, compute, and build/operate IT services to developers, and SMBs. Sold in 2026.
- Ran finance (QuickBooks accounting & taxes), legal, web, brand, marketing, and Northeast data center operations.
- Co-managed hardware, networking, software, procurement, customer success, tech support, referral sales, HR, and staff (paid and interns); developed software projects and internal tooling from frontend to backend.
- Built and operated $250K+ of assets and equipment: compute, networking, T1 ISP upstreams, PoP management, peering, routing security, cyber security, and DCIM/IPAM.
- Operated AS57974, managing policy and sessions; served as on-site data center technician at our NYC PoP in 60 Hudson.

Freelance Web Designer, Developer & Graphic Designer, Self-Employed **Nov 2018 - Present**

- Design and develop websites, branding assets, logos, and digital graphics for clients, from scoping through delivery.
- Convert Figma and Adobe XD designs into responsive React/Next.js sites; deploy on NGINX, Apache, Vercel, and Cloudflare Pages.

PROJECTS

Agentic browser, Clef-browser **Fall 2026**

- Designed and created an agentic browser harness built around the Cloudflare Clef model family. Built an agentic browser where an LLM agent drives live Chromium and delegates browsing subtasks to Cloudflare's Clef models, with user steering and approvals.

Traffic sankey visualizer utility, tracerill **Fall 2026**

- A fully local macOS app in Electron and React that maps live network traffic from app to domain to IP/ASN to company.

Personal AI Gateway/Router, gateway **Summer 2026**

- Built an OpenAI-compatible API gateway that routes to AI providers with BYOK support. Designed a serverless architecture with one stateless service for the platform.

MacOS global hotkey daemon, whistle-hotkey **Summer 2026**

- Built a Swift menu-bar daemon that runs shell commands from global hotkeys, with a CLI, live-reloaded JSON config, and CI.

EDUCATION

New York University, New York **Aug 2024 - Present**

- BA in Computer Science with a Minor in Business Studies, graduating in 2028

LEADERSHIP & EXTRACURRICULAR

NYU Stern Entrepreneurial Exchange Group, Growth Team **Spring 2026 - Present**

- Managing outreach, growth pipelines, and relationships with partners, speakers, and sponsors to grow the organization's programs. Part of the leadership team and assisted in general events and running the club.

NYU Stern Entrepreneurial Exchange Group, Entrepreneur in Residence **Spring 2026**

- Building a startup while collaborating with founders, mentors, and investors at a unique selective accelerator program at NYU.

Tech@NYU, Dev Team Member **Spring 2026**

- Hands-on development experience building 'ralph' a TUI for running autonomous AI loops. Selected for Spring 2026 cohort.

NYU Effective Altruism, Executive Board Member **Sep 2025 - May 2026**

- Primary role as the webmaster of the organization. Ensuring active website updates & sleek intuitive design & code.

TECHNICAL CERTIFICATIONS

Cisco Networking Basics
February 26, 2025

Fortinet FortiGate 7.4 Operator
February 24, 2025

Fortinet Certified Associate Cybersecurity
February 24, 2025

TECHNICAL SKILLS

Languages: TypeScript, Rust, Java, C#, Python, Swift, Lua, Bash
Data, AI, and Platforms: Cloudflare (Workers, Workers KV, Durable Objects, AI Gateway, Zero Trust, R2, Images), Vercel, SQLite, PostgreSQL, OpenAI (SDK & API) / Codex, Anthropic / Claude Code, SpaceXSI / Grok, OpenCode, Hermes Agent, Git.
Systems & Infra: MacOS, Debian based Linux, Windows / Windows Server, Proxmox, VirtFusion, Virtualizor, TenantOS, IPMI/Redfish, NetBox, LibreNMS, Docker (Incl. Docker Networking), K8s, Portainer, PowerShell
Networking & Cloud: Networking (VLANs, LACP, Subnetting, IPv4/IPv6, ACLs, Bridging, Trunking, DHCP, etc.), BGP (JunOS, Bird, Communities, Blackholing), RPKI/IRR, DNS/rDNS, L2–L4 design, GRE/IPIP/WireGuard, NetFlow/sFlow, Oxidized
Frameworks & Design: Effect.ts, React, Next.js (OpenNext), Astro, Svelte, Vite, Deno, TanStack, Tailwind CSS, Express/Node.js, Webflow; Figma, Adobe XD, Photoshop, Illustrator, Inkscape, Blender, Canva, Procreate.