Nav Veer Bhangal

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EDUCATION

University of California, Los Angeles *Jun 2026*
Bachelor of Arts in Computer Science and Linguistics *Los Angeles, CA*

EXPERIENCE

Vulorean (vulorean.com) *Feb 2026 – Present*
Co-Founder & Technical Lead *Los Angeles, CA*

- Co-founded and lead engineering for a SaaS that helps homeowners appeal their property taxes, saving them over **$100,000**; built the platform across a Cloudflare Worker edge, Node.js API, Python FastAPI valuation backend, and Supabase Postgres, with **1,200+** tests run in CI on every push.
- Built an appraiser-style comparable-sales valuation engine (market regression, paired-sales adjustments, BOE Rule 324 limits) on a **near-zero-marginal-cost** pipeline that pulls comps from public listings and enriches them with Gemini vision and LLM research agents, replacing the licensed data feeds (ATTOM, CoreLogic) competitors pay for.
- Shipped a hybrid-RAG filing assistant with an eval harness, a Twilio phone voice agent, and an SEO engine that generates **12,547** county and city filing guides across 20 states.
- Built the Stripe Connect payments layer: idempotent webhooks, payouts that cannot double-pay, and refund clawbacks on already-paid commissions, with integer-cent math enforced by build-failing tests.

Bay Transport Inc. *Jun 2025 – Sep 2025*
Contract Software Engineer *Union City, CA*

- Developed and deployed a full-stack, containerized application (Python/FastAPI, React, PostgreSQL) to digitize and automate dispatch workflows for a trucking logistics firm; established a Jenkins + Docker CI/CD pipeline for ongoing deployments.
- Designed a route-optimization algorithm that assigns freight jobs across the driver fleet to cut total miles and turnaround.

High-Volume Reselling Business *Jan 2018 – Jun 2023*
E-Commerce Business Owner & Secondary Market Specialist *Fremont, CA*

- Founded a sole-proprietor e-commerce business generating **$500K+** in sales (2018–2023) while maintaining an average **27% ROI** through strategic sourcing and resale of high-demand consumer products on secondary markets.
- Deployed internal automation tools and dynamic pricing strategies grounded in real-time market research to streamline sourcing, pricing, and social media marketing campaigns.

Adath Trading (Acquired) *Feb 2020 – Dec 2020*
Founder *Remote*

- Founded and scaled a subscription-based automation-software consultancy, growing recurring revenue to a successful acquisition in December 2020; built configuration tooling that improved members' checkout success rates.

PROJECTS

Flow: Social-Practice Tracker + Coach Marketplace (flowstates.xyz)
React 19, TypeScript, Cloudflare Workers (Hono), D1, R2, Workers AI, Web Push, MapLibre, Vitest

- Built and run solo a PWA where users log real-world social interactions (offline capture, analytics, streaks), plus a coach marketplace, on a Hono API over Cloudflare Workers + D1 with split staging/prod and test-gated deploys.
- Shipped end-to-end encrypted DMs (per-device X25519 keys, AES-256-GCM, safety numbers) that hide the conversation graph from the server with keyed hashes and sealed IDs; locked admin tools behind passkeys + TOTP.
- Built a TikTok-style coach video feed with Instagram and TikTok importers on cron-driven queues (15-minute auto-sync) and watch-time "For You" ranking.

Choice: AI Accountability iOS App (TestFlight)
Swift, SwiftUI, Screen Time API, HealthKit, Three.js, Node.js, Google Cloud Run, Firebase Auth, DeepSeek, Groq

- Built solo a native iOS app where a procedurally generated 3D companion holds users to step, sleep, and app-time goals; went from first commit to TestFlight in **17 days**.
- Enforced app-time limits with Apple's Screen Time frameworks (FamilyControls, ManagedSettings, DeviceActivity) across 4 app extensions: shield, shield action, activity monitor, and usage report.
- Built an LLM agent on Cloud Run that negotiates when users ask to break a goal, with prompts and tools kept server-side behind Firebase-verified quotas; **220+** tests gate each release.

SKILLS

Languages: Python, TypeScript, JavaScript, Swift, SQL, Java, C++
Frameworks: React, Node.js, FastAPI, Hono, SwiftUI, Next.js, Express
AI: LLM agents and tool use, RAG + embeddings, eval harnesses, vision and voice agents (Claude, Gemini, DeepSeek, Kimi)
Infrastructure: Cloudflare Workers/D1/R2, GCP Cloud Run, Supabase, Firebase, PostgreSQL, Docker, Jenkins, Stripe, Twilio, Git