

Pushpal Patil

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SUMMARY

Fullstack/AI engineer with founding-stage startup experience - comfortable going from customer conversations to product scoping to shipping end-to-end. Focused on translating complex features into seamless UX through modern front-end architecture with a natural eye for detail and design.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Swift, Python (ML/backend)

Frameworks: React, Next.js, App Router, TailwindCSS, Figma, Better Auth, Animation/Responsive design

AI/ML: LLM integration (OpenAI/Anthropic), AWS Bedrock, Prompt engineering, PyTorch, CNNs/EfficientNet

Infrastructure: AWS, Vercel, Docker, DynamoDB, Supabase, tRPC, API design, Real-time systems (WebSockets)

EXPERIENCE

Founding Engineer | *immersionED Inc.*

Sept. 2025 – Present

- **Drove \$1M+ in enterprise contracts since Oct. 2025:** Worked as deployed engineer with university clients (UChicago, ASU, SDSU, College Board etc.) — translating customer requirements into engineering work and scoping product direction with CEO.
- **Built AI-powered learning simulations:** Integrated Google Gemini with Plastic Labs Honcho (LLM + memory SDK, persistent user memory for AI agents) to deliver stateful, adaptive, personalized experiences for university students.
- **Drove Firebase → AWS platform migration alongside CTO:** Scoped architecture, migrated legacy features, and rebuilt AI infrastructure on AWS Bedrock.

Software Engineer Intern | *Steer.io*

Jul. 2025 – Aug. 2025

- **Shipped creator discovery platform in 4 weeks:** Built end-to-end Discover Talent page used by 100% of brand partners, enabling data-driven influencer selection across 200+ creator profiles with React/TypeScript.
- **Meta Graph API integration:** built foundation for real-time influencer analytics, handling 1K+ API calls/day.
- Worked closely with the CTO and helped resolve critical production failures within hours, directly saving 3 customer accounts worth \$15K MRR

Fractal Tech AI Accelerator | *New York City*

Jun. 2025 – Aug. 2025

- **Full-stack AI product development:** Shipped 3 complete applications including real-time multiplayer and Godot-based game, and production LLM integration. Worked 60+hrs/week and achieved modern full-stack proficiency in 8 weeks.
- **Launched Watashi:** astrology-based AI group-chat app with complex multi-personality LLM orchestration.
- Stack: Next.js, Vercel, Drizzle, Supabase, API integrations, Better Auth, LLM integrations

PROJECTS

Neutrino - a Human Design Experience | *Next.js, Supabase, Claude API, ElevenLabs API*

July. 2026

- **Built an astronomical computation engine** (VSOP87/Meeus): 13 planetary positions with delta-T correction, true-node derivation from lunar state vectors, and an iterative solar-arc solver, validated to arcsecond accuracy against Swiss Ephemeris with automated fixtures.
- **Designed an interactive SVG bodygraph** (9 centers, 64 gates, 36 channels) in a hand-drawn engraving style, with a voice-synced self-assembling onboarding reveal (200+ pre-generated ElevenLabs clips) and a daily heatmap overlay.
- **Architected a compute-once backend:** immutable per-user chart storage (RLS), a global once-daily transit computation diffed per user, LLM interpretations cached by key, and streaming Claude chat via Vercel AI SDK, each chart element pre-seeded with its context in the user's chart.

ViBerry | *Model Orchestration, Gemini 2.5 Flash, Imagen 3, Spotify API*

Mar. 2026

- **Built real-time multimodal web app** that ingests video/audio, extracts “vibes” via Gemini 2.5 Flash (video + audio understanding), and generates matching Spotify playlists, color palettes, and AI moodboards via Imagen 3.
- **YC × Google DeepMind Multimodal Frontier Hackathon** — built end-to-end in under 6 hours, from multimodal ingestion to multi-output generation across three APIs.

Watashi - Chat with your Birth Chat Planets | *Next.js, Claude API, Swiss Ephemeris*

Aug. 2025

- **Built multi-personality AI chat app** generating personas from astrological birth charts — engineered 3-layer personality system with dynamic topic-based routing (1–5 personas per message), optimized from multi-call to single-call LLM orchestration reducing API costs 75%.
- **Integrated 3 external APIs** (OpenStreetMap geocoding, Swiss Ephemeris birth chart calculations, Anthropic Claude) powering location search, chart generation, and conversational AI for 50+ active users.

EDUCATION

M.S. in Software Engineering | *San Jose State University*

Aug. 2023 - Dec. 2025

B.S. in Software Engineering | *San Jose State University*

Aug. 2018 - Dec. 2022