

PAVAN SAI CHILUKALA

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SUMMARY

Founding engineer who sets the technical direction and ships product from a blank repo. Built and shipped an agentic fintech OS at Harmony, leading architecture and delivery across web, mobile, and AI. Generalist across React, TypeScript, Node.js, Python, and Swift with production experience integrating LLMs and payment rails. At my best in zero-to-one environments where I can take a product end to end. Open to relocate anywhere in the US.

SKILLS

Languages: TypeScript, JavaScript, Python, Swift, Java, C++
Frontend: React, React Native, Next.js, SwiftUI, Tailwind CSS
Backend & Databases: Node.js, Express, Flask, PostgreSQL, MongoDB, Firebase
Cloud & DevOps: AWS, Docker, Kubernetes, GitHub Actions

WORK EXPERIENCE

- Founding Software Engineer** May 2026 – Present
Harmony Financial Technologies Remote
- **First engineer** – chose the stack, architected the system, and shipped an **Agentic Financial OS** from a blank repo, owning every technical decision
 - Built end-to-end product on React, Node.js, Supabase/PostgreSQL, Stripe, Plaid, Auth0, Resend, deployed on Railway and Vercel
 - Designed a KYA (Know Your Agent) protocol enabling AI agents to initiate and settle agent-to-agent payments across companies
 - Built multi-tenant identity and authorization with Auth0 and JWT; integrated Stripe and Plaid for payment processing and financial data aggregation
 - Own the full SDLC: architecture, CI/CD pipelines, code standards, production monitoring, and incident response
- iOS Developer (Volunteer)** Feb 2026 – Jun 2026
Streetcare Remote
- Shipped Swift/SwiftUI features and bug fixes for a production iOS app used daily by field workers serving homeless communities
 - Integrated Firestore and CoreData as real-time cloud and local persistence; participated in full SDLC and peer code reviews
- Software Engineer** Sep 2022 – Nov 2023
Dhanush Healthcare Systems Hyderabad, India
- Built **60+** modular React/TypeScript components and integrated **150+** REST APIs for real-time mobile-to-backend synchronization across two healthcare apps
 - Cut component turnaround **80%** via memoization and improved UI responsiveness **70%** via lazy async loading
 - Shipped **16** production releases to App Store and Play Store; built GitHub Actions CI/CD in strict Git-flow; integrated Google OAuth and **35+** Firebase deep-linked Redux navigation flows
- Graduate Teaching Assistant – Algorithms & Data Structures** Jan 2025 – Dec 2025
University of Central Missouri Warrensburg, MO
- Evaluated **500+** algorithm implementations for correctness and time complexity; mentored **50+** students on scalable system design

PROJECTS

- The Daily Wag** | *React, Node.js, PostgreSQL, AWS S3, Docker, JWT* | github.com/pavan-sai-ch/daily-wag-frontend 2025
- Led full-stack architecture of a consumer platform from scratch with decoupled services and secure AWS S3 storage
 - Engineered custom scheduling logic preventing concurrent booking conflicts; built admin analytics across **200+** products with loyalty-based pricing and zero-downtime CI/CD
- volumeMixer** | *Swift, Core Audio (CATap), macOS* | github.com/pavan-sai-ch/volumeMixer 2026
- Built a macOS menu bar utility for per-application volume control using low-level Core Audio Tap APIs at the hardware abstraction layer; shipped open-source with zero third-party dependencies
- C3-Carpool Connect** | *React, Flask, MongoDB, PostgreSQL, CI/CD* | github.com/pavan-sai-ch/carpool-frontend 2024
- Built a real-time ride-sharing platform matching users via optimized geo-spatial queries with sub-second latency and **99.9%** uptime on automated CI/CD

EDUCATION

- M.S. Computer Science** | **GPA: 3.8 / 4.0** Jan 2024 – Dec 2025
University of Central Missouri Warrensburg, MO
- B.Tech. Computer Science & Engineering** | **GPA: 3.75 / 4.0** Aug 2019 – Jul 2023
Jawaharlal Nehru Technological University India