

Hemanth Peddada

Building AI tools and mobile workspaces for developers.

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EDUCATION

Kommuri Pratap Reddy Institute of Technology

B.Tech in CSE (AI & ML) | CGPA: 7.8/10.0

Hyderabad, Telangana

Aug. 2023 - Expected Aug. 2027

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Rust, Java, SQL, C/C++

Frontend: React, Next.js, React Native, Expo, Redux Toolkit

Backend & Data: Node.js, Express, Bun, Flask, FastAPI, PostgreSQL, MongoDB, Redis, Supabase

AI/LLM: RAG, LlamaIndex, LangChain, Qdrant, pgvector, MCP, coding agents, prompt evaluation

Tools & Infrastructure: Git, Docker, AWS, WebSockets, Playwright, Turborepo, Solana, Algorand

Certifications: Microsoft Azure AI Engineer Associate; Oracle OCI Generative AI; DataCamp AI Engineer Associate

EXPERIENCE

AI/ML Intern

Jan. 2025 - Apr. 2025

Inspire Leap

Remote

- Built a Python/Flask healthcare predictor using eight inputs; reached 92% accuracy on the evaluation set.
- Built a retrieval pipeline with LlamaIndex and pgvector, working on query cost and search latency.
- Tested LLM prompt templates against custom benchmarks to check whether responses followed the required JSON format.

PROJECTS

HelixBox | *Website* | *Source*

Tech Stack: *TypeScript, React Native (Expo), Rust, Bun, WebSockets, Algorand*

- Co-authored an Android IDE that pairs with a laptop by QR code, bringing its editor, terminal, Git and app previews to the phone. Supports Claude Code, Codex, OpenCode and Hermes through the laptop's CLIs.
- Built a Rust PTY host on WezTerm internals that streams changed terminal cells as JSON deltas at up to 24 fps.
- Added a Bun WebSocket proxy with automatic reconnection when the phone switches networks.
- Added Algorand MainNet x402 billing: \$0.25 USDC/hour or \$2/week for agent access, excluding provider usage.

Grant | *Website* | *Source*

Tech Stack: *TypeScript, Next.js, Supabase, PostgreSQL, MCP, OAuth 2.1*

- Built a private Markdown profile that Claude Code, Codex, Cursor and ChatGPT-compatible agents read over MCP, with section-level permissions.
- Implemented OAuth 2.1 with PKCE, workspace-scoped access and revocable tokens; agents propose reviewable edits or update explicitly permitted sections.
- Added GitHub Markdown sync with pull previews, diffs and audit records, plus a terminal MCP client using the same OAuth flow.

Unsubscribely | *Website* | *Source*

Tech Stack: *TypeScript, Algorand, PuyaPy, Supabase, Railway, MCP*

- Built seven Algorand TestNet escrow vault types in PuyaPy/TEAL v11, with scheduled releases and a cancellation kill switch.
- Connected a Railway agent with 14 skills and a 30-minute scheduler to a 12-tool MCP server for Claude and ChatGPT.
- Added Telegram cancel/keep alerts, Gmail receipt imports and on-chain cancellation notes.

ACHIEVEMENTS

- **Global x402 Challenge, Algorand Foundation:** HelixBox ranked 18th on the measured leaderboard and earned a 10,000 ALGO prize.
- **Superteam Agentic Engineering Grant:** Received 200 USDG for Workline, then built a Solana mainnet marketplace for hiring AI agents with SOL escrow.
- **Amazon ML Summer School 2025:** Selected for training with Amazon scientists in generative AI, LLMs and reinforcement learning.