

HEMANTH PEDDADA

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Work Experience

Google Summer of Code (GSoC) 2025 — AOSSIE

Jun 2025 - Aug 2025

Open Source Contributor & Maintainer

Remote

- Collaborated with mentors in Agile Scrum to design and ship user-facing features, delivering **20+ pull requests**.
- Refactored state management with Redux Toolkit, iterating on feedback to reduce CI/CD runtimes by **2x**.
- Managed code quality as maintainer; reviewed 30+ pull requests and integrated automated Slack alerts via **n8n**.

Inspire Leap

Jan 2025 - Apr 2025

AI/ML Intern

Remote

- Engineered a Python/Flask healthcare prediction system, analyzing 8 metrics for **92% prediction accuracy**.
- Developed a RAG pipeline using **LlamaIndex** and **PGVector**, cost-optimizing queries to reduce search latency.
- Optimized prompt templates for LLMs, evaluating model outputs against custom benchmarks to ensure structured JSON.

Projects

Helix Box | [Source Code](#)

TypeScript | Rust | Node.js | WebSockets

- Co-authored an AI-powered mobile IDE and cloud client integrating OpenAI and GPT-class models for code generation.
- Engineered a custom **Rust PTY terminal integration** for incremental rendering over Bun WebSockets.
- Implemented a WebSocket proxy with automatic network reconnection to maintain active session states during handoffs.

Unsubscribely | [Website](#) | [Source Code](#)

TypeScript | Algorand | Node.js | Supabase

- Developed a decentralized subscription manager with **9 smart contracts** (PuyaPy/TEAL v11) on Algorand for escrows.
- Built an autonomous transaction agent (15 skills) integrating a **12-tool MCP server** for database sync.
- Programmed automated browser cancellation workflows using **Playwright** and webhook alerts via **Twilio**.

Ephera | [Website](#) | [Source Code](#)

TypeScript | React | Vite | PWA

- Developed an offline-first markdown PWA with service worker caching, enabling instant loading under zero network.
- Established E2E tests using **Playwright** and **GitHub Actions**, increasing code coverage by 35% and preventing regressions.

Achievements

AlgoBharat Hack Series 3.0 — Algorand Foundation

2026

- Selected in **top 30 out of 500+** teams; competed in **x402 Tech Challenge** during Algorand Developer Retreat in Goa.

Amazon ML Summer School 2025

2025

- Selected out of **6,000+ applicants**; trained by Amazon scientists on generative AI, LLMs, and reinforcement learning.

Certifications

Microsoft: Azure AI Engineer Associate | Oracle: OCI Generative AI | DataCamp: AI Engineer Associate

Technical Skills

Languages: TypeScript, JavaScript, Python, Java, SQL, C/C++, HTML/CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Spring Boot, Flask, FastAPI, Tauri, Redux Toolkit

AI & Orchestration: LLMs (GPT/Claude/Gemini), RAG, LangChain, LlamaIndex, PGVector, Model Context Protocol (MCP)

Tools & Databases: Git, Docker, Kubernetes, AWS, PostgreSQL, MongoDB, Redis, Supabase, Playwright, n8n, Twilio

Education

Kommuri Pratap Reddy Institute of Technology

Hyderabad, Telangana

B.Tech in Computer Science and Engineering (AI & ML) — **CGPA: 8.7/10.0**

Aug 2023 - Aug 2027

- **Coursework:** Data Structures & Algorithms, DBMS, Machine Learning, Deep Learning, Natural Language Processing.