

Harsha Vardhan Polamarasetty

Software Development Engineer

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PROFESSIONAL SUMMARY

Final-year B.Tech student and aspiring Software Development Engineer with a strong hands-on, build-while-learning approach. Self-driven and adaptable, with the ability to quickly learn new technologies and apply them to real-world problems. Actively explores beyond the academic curriculum through independent learning, research, and industry guidance.

SKILLS

- **Programming Languages:** Python, Java, JavaScript, C, SQL
- **Databases & Storage:** MySQL, PostgreSQL, MongoDB, Qdrant (Vector Database)
- **Backend & APIs:** Node.js, Express.js, Spring Boot, Flask, Django
- **Frontend & Mobile:** React.js, Vue.js, Next.js, React Native, Tailwind CSS
- **AI / ML & LLM Systems:** LangGraph, LangChain, LangSmith, PyTorch, Transformers (Hugging Face), Scikit-learn
- **Tools & Platforms:** Docker, Git, Postman, Appwrite, Directus CMS
- **Soft Skills:** Analytical Thinking, Communication, Team Collaboration, Problem Solving, Adaptability

EXPERIENCE

- **Realfy Oasis**
Node.js Developer Intern Sep 2024 - Nov 2024
 - Built a scalable backend with **Node.js, Firestore, and Directus CMS**, optimized to handle **1,000+ API requests/sec** and maintain reliable performance under peak traffic.
 - Built **AI-powered fitness and health tracking** features that analyze user inputs to generate **personalized diet plans and workout recommendations**, enhancing user engagement and application utility.
 - Collaborated with UI/UX designers and backend engineers in an Agile team to **plan, develop, and deploy robust backend infrastructure** aligned with business goals and user requirements.

PROJECTS

- **WhatsApp RAG Chatbot for Real-time Community Platform**
LangGraph, LangChain, LangSmith, Qdrant, Python, FastAPI, WhatsApp Cloud API Sep 2025 - Oct 2025
 - Built a **multi-domain RAG chatbot** using **LangGraph agents**—router, domain, and aggregator—to classify and answer user queries in parallel, with a **rolling-window context summarizer** for token-efficient, context-aware replies.
 - Engineered a robust pipeline using **LangGraph, LangSmith, and Qdrant vector search** to manage conversational state, dynamic retrieval, and multi-turn query resolution, enabling seamless and scalable interaction for hundreds of active users.
- **AI News Scraper & Summarizer with TTS**
Python, Hugging Face, BERT, Gemini API, Flask, Gradio Mar 2025 - Mar 2025
 - Automated news scraping from Google News, performing preprocessing and summarization with **BART-Large-CNN**, achieving 90%+ compression accuracy using **chunking and sliding-window** techniques.
 - Implemented **sentiment analysis and trend detection** across 10+ sources per query using the **Gemini API**, with **real-time text-to-speech (TTS)** in Hindi for accessibility.
- **ShareWithMe – Anonymous File Sharing Application**
React.js, Node.js, Express.js, MongoDB, Firebase Jul 2023 - Sep 2023
 - Engineered a **full-stack web application** for **secure, anonymous file sharing with no authentication required**, prioritizing **user privacy**, simplicity, and ease of access through **memorable file IDs** for quick retrieval.
 - Designed a **responsive React-based UI** enabling **one-click file uploads** with **optional password protection**. Integrated **MongoDB and Firebase Storage** for fast, secure retrieval, achieving typical access times of **3–5 seconds**.

EDUCATION

- **KL University** Guntur, India
Bachelor of Technology in Computer Science and Engineering (CSE); CGPA: 9.49/10.0 Aug 2022 - May 2026

CERTIFICATIONS

- Salesforce Certified AI Associate
- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- Red Hat Certified Enterprise Application Developer

ACTIVE PROJECTS & INTERESTS

- **Active Project:** Building **Daily Shelf**, an **offline-first habit-tracking app** using **React Native** and **Appwrite (BaaS)**. Inspired by *Atomic Habits*, it focuses on helping users build and maintain consistent daily routines.
- **Interests:** Exploring open-source projects, reading diverse books, learning new technologies, and staying active through sports.