I. Vamsidhar Reddy

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Professional Summary

Computer Science undergraduate at National Institute of Technology Durgapur with a 9.07 CGPA and strong foundations in Data Structures, Algorithms, OOP, DBMS, and Operating Systems. Experienced in building scalable full-stack applications and AI-powered systems using React, Next.js, Node.js, TypeScript, LangChain, and LangGraph. Developed multi-agent AI platforms, real-time communication systems, and RAG-based applications with a focus on system architecture, performance optimization, and production-ready engineering.

Education

National Institute of Technology Durgapur — Aug 2024 – Jun 2028
B.Tech in Computer Science and Engineering — CGPA: 9.07 / 10.0

Achievements

- Secured **AIR 8802** in JEE Main 2024.
- Secured **3rd Position** in Techmela Event conducted by AAROHAN.

Projects

Cotex_AI – Multi-AI Agent Platform — GitHub
React, Node.js, Express, LangChain, LangGraph, AWS S3

- Architected a microservices platform with **8 specialized AI agents** for Coding, Chat, PDF-RAG, Vision, Search, and PPT generation, orchestrated through LangGraph with multi-LLM routing across Groq, Gemini, and Hugging Face.
- Implemented Redis-based rate limiting and request optimization, reducing average response latency by approximately **40%** while supporting concurrent AI workloads.
- Built a PDF OCR and RAG pipeline using Qdrant vector search, Firebase Authentication, and a React/Redux frontend with real-time streaming and interactive artifact previews.

Meet.AI – AI Meeting Assistant — GitHub | Website
Next.js, TypeScript, tRPC, Stream SDK, Groq, Gemini, Inngest

- Developed an event-driven AI meeting platform using **Next.js, TypeScript, and tRPC**, integrating Stream Video/Chat for real-time communication and Inngest for asynchronous background processing of concurrent sessions.
- Automated meeting summarization and post-meeting Q&A using Gemini and Groq LLMs, reducing manual note-taking effort by approximately **70%** during testing.

Streamify – Real-Time Communication Platform — GitHub
React.js, Node.js, MongoDB, Stream SDKs

- Developed a language exchange platform using React, Node.js, and MongoDB with real-time messaging and video communication capabilities.
- Integrated Stream Chat and Stream Video SDKs to implement read receipts, online presence tracking, and real-time video communication for concurrent users.

Skills

- **Programming Languages:** Python, C++, C, JavaScript, TypeScript
- **Web Technologies:** HTML, CSS, React.js, Next.js, Node.js, Express.js, Flask, FastAPI
- **AI/ML:** LangChain, LangGraph, Hugging Face, RAG Pipelines, Scikit-Learn
- **Cloud & Tools:** MongoDB, Redis, Qdrant, Docker, Git, AWS (S3, ECS, ECR)
- **Core Competencies:** Data Structures & Algorithms, OOP, DBMS, Operating Systems, System Design Basics

Positions of Responsibility

Senior Member, Center for Cognitive Activities (CCA-RND) — 2025 – Present

- Conducted techno-management fest events including Techmela, Conjecture, and Escape Room, engaging **500+ participants** in AI/ML workshops and technical activities.
- Mentored **10+ junior members** on full-stack development and AI integration practices, with 3 mentees going on to ship independent full-stack projects.