SATISH SOMAROUTHU

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Education

Blekinge Institute of Technology
Masters in Computer Science
Jan 2024 – present
Karlskrona, Blekinge

Jawaharlal Nehru Technological University
Bachelors in Computer Science
Aug 2020 – Nov 2023
Hyderabad, India

Experience

Siemens Energy
Master Thesis Student
Jan 2025 – Sept 2025
Finspång, Sweden

- Developed a RAG-driven system for deprecated word replacement in technical documents at Siemens Energy, leveraging Azure OpenAI LLMs and NLP to enhance writing efficiency by 50%.
- Researched and proposed an agentic AI architecture to extend the pipeline, investigating multi-agent orchestration frameworks (LangChain, LangGraph) for scalable, autonomous document correction workflows.

Google Developer Student Club—JNTUHCEH
Technical and management Lead
Oct 2022 – Sept 2023
Hyderabad, India

- Organized 15 flagship events in AI, Blockchain and WEB3, managing resources to meet club goals. Led Google Cloud Platform advocacy, guiding more than 300 students through free, structured skill development programs.
- Conducted DApps events and cryptocurrency workshops, providing hands-on experience in decentralized applications. These workshops enabled students to develop practical blockchain skills and industry knowledge

Projects

Mental Health Coach | *Multi-Agents, RAG, MCP, Full-Stack*

- Built a safety-first mental health coaching web app with LangGraph multi-agent orchestration (coaching, therapist discovery, appointment booking) and context-aware LLM-based intent classification with tiered crisis detection
- Engineered production-grade resilience and observability: structured JSON logging with correlation IDs, LangSmith tracing, rate limiting, retry logic with exponential backoff, and session-based conversation continuity
- Technologies: Next.js, TypeScript, Tailwind CSS, FastAPI, PostgreSQL + pgvector, LangGraph, Docker Compose, Caddy, LangSmith, Stripe, Google OAuth.

Graphwise | *Code Knowledge Graph, GraphRAG, Full-Stack, CI/CD*

- Implemented a Graph RAG pipeline that processes repositories, models code relationships in Neo4j, and enables natural-language code search and Q&A via graph-based retrieval.
- Operationalized deployment on an Azure VM with a single HTTPS entry point through Caddy and CI/CD-driven releases using GitHub Actions
- Technologies: React, Vite, TypeScript, Tailwind, FastAPI, Neo4j, PostgreSQL, Redis, Docker Compose, Caddy, GitHub Actions, Azure

AI Marketing Assistant for Tjamigo | *Lead Generation Automation, AI powered Targeted Marketing*

- Built an AI marketing assistant for Tjamigo(event organizing platform based in stockholm) that generated 100+ new Reddit leads to support founder outreach, customer acquisition, and business growth.
- Created an automated pipeline to collect, classify, and rank Reddit prospects, reducing manual lead sourcing and improving outreach efficiency.
- Technologies: React, Shadcn UI, FastAPI, PostgreSQL, SQLAlchemy, FAISS, LangGraph, Groq API, Reddit API

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript
Technologies and Platforms: PostgreSQL, Git, Google Cloud Platform, Microsoft Azure, Docker, Kubernetes, Microsoft Office
Web/API Tools: Node.js, React, Next.js, Tailwind CSS, Radix, Streamlit, Flask, FastAPI, Servlets, JSP, Postman
Artificial Intelligence: Agentic AI, RAG, LangGraph, LangChain, FAISS, Chroma, Computer Vision, Word Embeddings, NLP, Data Analysis, Image Processing

Leadership / Extracurricular

- ∗ Co-Authored a Research paper on the topic Smart Contracts.
- ∗ Graduated in the Top 1% in Bachelor of technology.
- ∗ Secured a Scholarship of 50% on tuition fee for academic Excellence
- ∗ Student Ambassador – Blekinge Tekniska Högskola , Assisted 38+ incoming students with orientation, housing, and academic guidance, facilitating a smooth transition into university life.