

Sathees Paskaran

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Remote, Sri Lanka (GMT+5:30)

Full-stack engineer building production LLM apps and AI agents (RAG, LangGraph, FastAPI, Next.js). MSc research in agentic AI.

EDUCATION

University of Moratuwa <i>MSc in Artificial Intelligence (in progress)</i> Research focus: agentic AI (multi-agent) systems – coursework and dissertation complete.	Moratuwa, Sri Lanka <i>Dec 2023 – Dec 2026</i>
Sri Lanka Institute of Information Technology (SLIIT) <i>BSc (Hons) in Information Technology, specializing in Data Science</i> - Second Class Upper Division (3.63 WGPA). - MS Imagine Cup 2023 World Finalist; SLASSCOM National Ingenuity Award 2023.	Malabe, Sri Lanka <i>Sep 2018 – Mar 2023</i>

EXPERIENCE

Full-Stack Software Engineer <i>Coderunner Inc.</i> - Build full-stack products end to end for international clients (GIS and healthcare). - Design and ship REST APIs with Django REST Framework, PostgreSQL, and Stripe. - Build modern, responsive UIs with React and Next.js. - Contribute to CI/CD pipelines; gather requirements and manage delivery in Jira.	Oct 2024 – Present <i>Remote</i>
Full-Stack (Data) Software Engineer, Intern <i>iTelaSoft (Pvt) Ltd</i> - Built 20+ production data visualizations with PostgreSQL, Node.js (Express), and React. - Improved visualization performance using PostgreSQL functions (PL/pgSQL). - Ran data migration for a product revamp using Talend Open Studio (ETL).	Mar 2021 – Oct 2021 <i>Mirihana, Sri Lanka</i>

PROJECTS

AgentC: Autonomous Carbon Manager <i>LangGraph, FastAPI, Claude/OpenAI, ChromaDB, LangSmith, Next.js</i> - MSc dissertation. - Hierarchical multi-agent system: a manager agent coordinating a planning sub-graph of specialist agents and 9 task workers that ingest IoT energy data, resolve emission factors, simulate scenarios, and recommend Scope-2 carbon reductions. - Tool-using agents (6 tool modules) with typed shared state and LangGraph checkpointing; retrieval over a ChromaDB vector store; LangSmith tracing across every step, tool, and token. - FastAPI backend; Next.js dashboard that visualizes the agent graph in real time; IoT ingestion via Node-RED; deployed on Railway.
Chat-with-your-docs: RAG application (in progress) <i>FastAPI, pgvector, LangGraph, Next.js</i> - Upload PDFs and get answers with citations; hybrid search + reranking, query rewriting. - Evals catch bad answers; LangSmith tracing for latency / token / cost. - Dockerised, CI (GitHub Actions), deployed to cloud.
CarboMeter: NLP emissions-tracking app <i>Python, NLP, Django</i> - Tracks organisational GHG emissions from natural-language inputs. MS Imagine Cup 2023 World Finalist and SLASSCOM National Ingenuity Award 2023.

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL (Postgres)
AI Engineering: LangGraph, RAG (retrieval + reranking), LangSmith, LLMs & prompting
Frameworks: FastAPI, Next.js, Django / Django Rest Framework (DRF), Tailwind CSS, Shadcn, Vercel AI SDK, React
Databases: PostgreSQL, pgvector
Cloud & DevOps: AWS, Docker, GitHub Actions, CI/CD, Git