

Siddharth Gouthaman

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BE Computer Science and Engineering
Chennai Institute of Technology, Chennai, Tamil Nadu, India

CGPA 8.0
(2024 - 2028)

Experience

Backend Developer Intern - Inforios Software Technologies May 2025 - June 2025

- Built FastAPI REST APIs for territory management and field visit reporting with validation, filtering, persistence, and status-based processing.
- Implemented SQLAlchemy models and service-layer logic with duplicate-submission checks and transactional consistency.
- Added pytest coverage for CRUD operations, invalid inputs, status transitions, missing resources, and regression scenarios.

Full Stack Developer Intern - Softrate Technologies | Offline May 2026 - June 2026

- Integrated AI lead summarization into a CRM platform, streamlining follow-ups and improving sales representative productivity by 40%.
- Enhanced a web-scraping benchmark platform with agentic AI, improving product matching, price validation, and result accuracy.
- Developed a RAG-powered SQL Tutor Bot across 4 stages: retrieval, spoken-answer evaluation, scoring, and voice response generation.
- Implemented inventory and dealer workflows across 5 operations: stock reservation, dealer requests, branch fulfillment, invoicing, and audit tracking.

Projects

DistributedJob Queue [Go Redis Streams PostgreSQL Docker]

- Built a Go job platform with authenticated REST APIs, Redis Streams, PostgreSQL tracking, and configurable workers.
- Implemented at-least-once delivery with consumer groups, acknowledgements, timeout recovery, retry backoff, dead-letter handling, and idempotency.
- Added status/result APIs, ownership checks, structured logs, correlation IDs, health metrics, Docker deployment, and failure/load tests.

OpenWikiRAG [React TypeScript FastAPI LangGraph Neo4j Qdrant Postgres Redis]

- Built a WikiRAG enterprise knowledge platform transforming 8+ document formats into structured, source-linked wiki pages.
- Engineered hybrid retrieval with Qdrant vectors, Neo4j graph traversal, PostgreSQL filters, Redis caching, and cross-encoder reranking.
- Developed an ingestion pipeline for OCR, semantic chunking, embeddings, entity and relationship extraction, and incremental indexing.
- Integrated voice AI via STT, WikiRAG, LLM, and TTS with streaming responses, conversational memory, citations, and RBAC.

CalamityNode [Go libp2p GossipSub React Tailwind]

- Built an offline-first peer-to-peer emergency chat system for shared LAN, Wi-Fi, and hotspot networks without internet connectivity.
- Implemented Go libp2p hosts, mDNS peer discovery, and room-scoped GossipSub messaging for multi-user communication.
- Integrated a React/Tailwind frontend with HTTP APIs for sending, polling, displaying, and locally logging messages for recovery.

GreeFin [NextJS TailwindCSS LangChain Postgres]

- Designed an SDG-9 fintech platform enabling micro-investments in green infrastructure through multiple ROI models for citizens and corporates.
- Automated Green Credit verification to generate CSR and ESG evidence across environmental infrastructure projects.
- Delivered role-based dashboards for 2 stakeholder groups, contributing to a 1st-place finish among 800+ teams at Central India Hackathon 3.0.

Skills

Python	Express	TypeScript	LangChain	Docker	LeetCode solved 700+ problems with a max rating of 1850+
C	ReactJS	FastAPI	Tailwind CSS	AWS	CodeChef rated 2 star with current rating of 1400
Java	NextJS	Django	MongoDB	SQL	CodeForces current rating 700 with 100+ problems solved
C++	JavaScript	LangGraph	Postgres	Redis	HackerZ Codeathon Top 15 over 1500+ participants

Competitive Programming

Achievements

- Central India Hackathon 3.0 (1st Place)** SDG-9 track over 800+ teams and 100 Finalists.
- HackSymmetric'26 (Top 5)** Agentic-AI track over 350+ teams.
- Hack The Horizon 2.0 VIT Chennai (Top 10)** Open Innovation track over 200+ teams.
- Sprint4Good AI Hackathon IIT Delhi (Finalist)** Intelligent automation track.
- Adobe India Hackathon 2025 (Top 100)** conducted over 5000+ participants.

Certifications

- Introduction to Computer Networks - Cisco
- Prompt Design in Vertex AI - Google
- AWS Cloud Practitioner - Amazon
- Full Stack Generative & Agentic AI with Python - Udemy