

# Sarath Donepudi

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## EDUCATION

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- **Sri Siva Subramaniya College of Engineering** Chennai, India
  - *Bachelor of Engineering - Computer Science; GPA: 7.9* Nov 2020 - June 2024
    - *Courses: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

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- **Languages:** Python, JavaScript, TypeScript, Golang, Java, C, C++, Bash, Kotlin, Dart
- **Frameworks:** Next.js, React.js, Node.js, Express.js, React Native, Flutter, FastAPI
- **Databases:** PostgreSQL, MySQL, MongoDB, Elasticsearch, DocumentDB
- **Tools:** Docker, Redis, Kafka, Snowplow, GitHub, GitHub Actions
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, Load Balancer), GCP
- **AI / ML:** LangChain, LangGraph, CrewAI, RAG Systems
- **Monitoring:** Grafana, Prometheus, Loki
- **Soft Skills:** System Design, Leadership, Ownership, Rapid Execution

## EXPERIENCE

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- **Niti AI** Bengaluru, India
  - *Founding AI and Fullstack Engineer (Full-time)* Aug 2023 - Present
    - **AI-driven Growth & Agentic Systems:** Boosted **CTR by up to 1%**, generating **60K+ monthly clicks**, using **AI-driven RAG and recommendation systems**. Built **agentic growth workflows** to auto-select and deploy high-impact in-app experiences aligned to business goals, with human-in-the-loop orchestration.
    - **No-code Platform & GenUI:** Built **Loop** as part of the founding team—a **no-code platform** for in-app growth experiences. Developed a **drag-and-drop UI editor** with inline editing and **GenUI** to generate frontend and backend user journeys end-to-end from a single prompt, accelerating experimentation and iteration.
    - **Platform-agnostic SDKs:** Built **super-slim, production-grade SDKs for React, React Native, Flutter, and Android**, enabling integrations in under **5 minutes**. Designed a **centralized middleware architecture** to keep SDKs thin, achieving a **95% reduction** in SDK development and maintenance effort.
    - **Platform Infrastructure & Reliability:** Designed and operated a **multi-tenant middleware and backend platform** using **Next.js, TypeScript, Golang, and AWS**, serving **100K+ DAUs** with **99.9% uptime**. Implemented tenant isolation, secure APIs, and led **production incident triage** and reliability improvements.
    - **AI Workflow & LLM Orchestration:** Orchestrated **agentic AI workflows** using **LangGraph, FastAPI, and Next.js**. Built a **LiteLLM-based multi-provider layer** with tenant-aware routing and **Langfuse tracing**, and a **multi-agent framework** spanning Task, Audience, Campaign, Growth Analyst, and Marketing Strategist agents.
    - **Distributed Data & Onboarding Pipelines:** Built and operated **node-based workflow graphs** for tenant onboarding, data syncs, and insights. Implemented **multi-warehouse onboarding for BigQuery, Snowflake, and Databricks** with schema discovery, SQL validation, and parallel metrics computation, supporting enterprise-scale deployments.

## PROJECTS

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- **UpTell – Real-time Status & Alerts Platform (Next.js, FastAPI, PostgreSQL, Supabase):** Built a multi-tenant SaaS with WebSocket-powered live updates, email notifications, and RBAC. (Jun '25)
- **Mnemo – AI Executive Assistant (Next.js, FastAPI, n8n, LangGraph):** WhatsApp-based assistant for founders/executives that captures notes/to-dos and automates repetitive tasks via chat + voice with federated data integrations. (Work in progress)
- **Smart Statement Analyzer:** Developed a tool to parse PDF bank statements and provide dynamic insights including budgeting, goal nudges, and categorized spending patterns.
- **Faculty Activity Management System (Node.js, React.js, Express.js, MongoDB, AWS S3):** Built a full-scale system for the CSE Dept. at SSN (200+ faculty; thousands of monthly entries). Reduced reporting time from 5 hours to 1 second; shipped Google OAuth, RBAC, bulk import/export, and optimized file uploads + rotation.
- **YouTube Comment Classifier:** Trained deep learning model using **IndicBERT + LaBSE** to detect homophobic and transphobic comments in code-mixed Dravidian languages. Deployed model as a moderation microservice.

## LEADERSHIP EXPERIENCE

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- **Vice President & Treasurer, SSN ACM Chapter** Chennai, India
  - *Conducted online/offline technical & soft-skills training for 500+ students.*
- **Social Media Lead, Google Developer Student Club**
  - *Designed technical campaigns (+40% participation); organized hackathons & workshops.*
- **Tech Secretary, SSN Cyber Security Club**
  - *Built internal platforms and CTF challenges.*
- **NSS Volunteer** Thandalam, India
  - *Renovated classrooms in rural govt. schools; led Mahabalipuram beach cleanup (sustainability drive).*