

Sindhura Kumbakonam Subramanian

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EDUCATION

University of Florida

Master of Science in Computer Science

Gainesville, FL

Aug 2024 – May 2026

Sri Venkateswara College of Engineering

Bachelor of Engineering in Computer Science and Engineering

Chennai, India

Aug 2016 – May 2020

TECHNICAL SKILLS

Languages: Python, Java, Javascript, SQL, Go

AI/ ML: NLP (NER, Coreference Resolution), LLM (Chain of Thought prompting, RAG)

ML Libraries/ Frameworks: HuggingFace, spaCy, PyTorch, LangChain

Model Deployment/ MLOps: FastAPI, Docker, Git, JIRA, Apache Kafka, REST APIs

Frontend and Backend Frameworks: React, Next.js, Node.js, Express

Databases: PostgreSQL, MongoDB, MySQL, SQLite

Big Data Frameworks: Apache Spark

Other Skills: Software Development, Agile Methodology, Debugging, Unit Testing

EXPERIENCE

Trustworthy Engineered Autonomy Lab

Graduate Research Assistant

Aug 2025 – Present

Gainesville, Florida

- Leveraged Hugging Face transformers and large language models (LLMs) to enhance model reasoning through Chain of Thought prompting, improving performance via self-consistency across multiple sampled reasoning paths
- Contributing to research involving building, fine-tuning, and evaluating NLP models for explainable and trustworthy QA systems

Temenos

Associate Product Engineer

Nov 2021 – July 2024

Chennai, India

- Designed and integrated full-stack asset finance solutions; collaborated with cross-functional teams for seamless module integration and continuous product improvement
- Led mentoring sessions for new engineers on best practices, contributing to higher team onboarding speed
- Delivered high-performance code with 95% test coverage; resolved production-level bugs efficiently
- Resolved client defects in Islamic Banking, ensuring timely delivery and closure

Cognizant

Programmer Analyst

Nov 2020 – Nov 2021

Chennai, India

- Developed a custom UI feature for displaying purchase order discrepancies, enhancing visibility and decision-making using SAP tools

PROJECTS

Reddit Clone | Go, Protoactor, Git

Nov 2024 – Dec 2024

- Developed a reddit simulator with account registration, subreddit management, posting, commenting, voting, and messaging functionalities using the actor model
- [GitHub repo](#)

StartupNexus | React, Next.js, Go

Jan 2025 – Apr 2025

- Built a responsive web app for startup collaboration, including user feeds, profiles, and post CRUD
- [GitHub repo](#)

Data Redaction Platform | Python, Duckdb, Git, Apptainer

Jan 2025 – Apr 2025

- Engineered a redaction system for sensitive information in PDF documents, utilizing Named Entity Recognition (NER) and coreference resolution to redact specified names and entities.
- [GitHub repo](#)

Text Analysis System | Python, LangChain, Ollama, Git

May 2025 – June 2025

- Developed a modular AI agent system to perform text classification, entity extraction, and summarization
- [GitHub repo](#)