

# 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

Nov 2021 – July 2024

*Associate Product Engineer*

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

Nov 2020 – Nov 2021

*Programmer Analyst*

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](#)