

Sara Shree Ramadoss Muthuselvam

rm.sara07@gmail.com | 803-250-0601 | linkedin.com/in/sara-muthu/

EDUCATION

University of South Carolina

Bachelor of Science in Engineering in Computer Engineering

Expected Graduation: May 2026

GPA: 3.5/4.0

Honors: Zachary Lewis Drawdy Engineering Endowed Scholar, International Student Excellence Scholarship, John H. Fain Computing Scholarship

PROFESSIONAL EXPERIENCE

IT Intern, Division of Business Affairs USC

May 2025-Aug 2025

- Managed and maintained the school's central database containing confidential student information, ensuring accuracy, security, and compliance with data privacy policies.
- Utilized RingCentral to handle incoming calls, troubleshoot IT-related issues, and deliver responsive customer support to students, faculty, and staff

REU, Summer School on the Mathematical Foundations of Data Science USC

June 2025-July 2025

- Designed an end-to-end framework integrating ROS with LLMs for robotic control.
- Reviewed the *SayCan* paper in detail to inform development of a natural language-to-robot translation layer.
- Explored ROS-LLM integration to enable natural language driven robotic commands.

Website Manager & UI/UX Developer, Big Data Health Center USC

Jan 2025-May 2025

- Manage and update three websites, ensuring accurate and timely information.
- Revamped an entire website to enhance usability, design, and functionality.
- Develop and improve UI/UX for multiple web platforms to optimize user experience

Research Assistant for Artificial Intelligence Institute of USC

Jan 2023-May 2025

- Designed and implemented a pipeline that leveraged an API-connected LLM to paraphrase social media posts, supporting a project focused on detecting AI-generated content, reducing spam, and promoting ethical AI practices
- Managed large datasets in Linux and Conda environments using data visualization to uncover trends and provide insights into AI-generated content
- Created a user interface for a custom compact generative AI chatbot to assist in smart manufacturing cells, contributing to automation and productivity improvements
- **Co authored:** *AAMAS 2025 Demonstrations Track SmartPilot: Agent-Based CoPilot for Intelligent Manufacturing*
AAAI Conference on Web and Social Media (ICWSM 2026): A Large Scale Social Web Audit of AI Generated Text Detection Systems

Peer Leader/Consultant, Student Success Center, USC

Aug2024-May 2025

- Leading one-on-one consultations, helping students develop time management and study strategies, resulting in an improvement of academic performance for participants
- Supervising front desk operations, ensuring efficient communication and timely handling of daily activities

Technical Intern, IT Department of Student Affairs and Services, USC

May 2024-Aug 2024

- Resolved over 40 IT service requests using a virtual ticketing system, contributing to operational efficiency
- Managed IT asset inventory using ERP systems and coordinated risk management for hardware installations, reducing equipment-related incidents
- Led technical efforts during campus move-in, proactively resolving issues and ensuring seamless hardware and software installations

SKILLS & CERTIFICATIONS

Python, UI/UX, LINUX, SQL, R, Java, HTML, CSS, ROS, TensorFlow, PyTorch, CoreFlow, Sklearn, React

Certifications: Kaggle Python Certificate, Data Analytics on AWS from Coursera, IBM Call for Code Hackathon

INVOLVEMENT & ACTIVITIES

Kappa Theta Pi, Founder, Director of Finance

Women in Computing Club, Vice President

March 2025-Present

Aug 2022-Present