

Sanjana Soma

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Objective

Software engineer with expertise in building scalable web applications using React.js, Redux, Hooks, and REST APIs. Skilled in Python, Java, and C++ with a strong grasp of data structures, algorithms, and object-oriented design principles. Proven collaborator in cross-functional teams to enhance performance and user experience.

Education

Arizona State University

MS, Computer Science

Aug 2024 - May 2026

Tempe, AZ

- **GPA:** 4.0/4.0

Technical Skills

- **Languages:** Python, C++, Java, C, SQL, JavaScript, HTML, CSS
- **Frameworks/Libraries:** ReactJS, NodeJS, Django, TensorFlow, Pandas, PySpark, Plotly
- **Systems/Tools:** Unix/Linux, Git, REST APIs, Data Pipelines

Experience

Vibho Technologies

Jun 2023 - Jul 2024

React Developer

Hyderabad, India

- Built and maintained multi-page React applications using React Hooks, Redux, and React Router, improving user navigation and state management, and collaborated in code reviews to ensure code quality.
- Collaborated with backend and partner teams to build and deploy dynamic multi-page interfaces on AWS cloud platforms using ReactJS and JavaScript, improving site load speed by 25%.
- Resolved over 30 integration and performance issues monthly in distributed system environments, improving partner-facing UI responsiveness and reliability.
- Designed reusable components and microservices-based RESTful APIs, reducing development redundancy by 20%.

Mindgraph Technologies

Jan 2023 - Jun 2023

Software Engineer

Hyderabad, India

- Developed data ingestion modules and scalable UIs for a Customer Data Platform (90M+ records) on cloud platforms, enabling advanced analytics and machine learning workflows for enterprise partners.
- Optimized SQL queries and data pipelines with Python, reducing query latency by 18%.

Research & Projects

Long Context Benchmark

Jan 2025 - May 2025

Arizona State University

Tempe, AZ

- Engineered a framework to evaluate long-context reasoning in LLMs across multi-thousand-word datasets using GPT-4, LLaMA-3.1, and Perplexity AI.
- Applied prompt engineering, evaluation pipelines, and loss analysis to improve LLM accuracy and interpretability, aligning with Gemini's partner schema and data quality goals.

Customer Data Platform

Jan 2023 - Jun 2023

Mindgraph Technologies

Hyderabad, India

- Developed an end-to-end platform integrating multi-source data pipelines, increasing customer engagement by 20%.
- Enhanced partner-driven insights via centralized data ingestion and analytics for telecom clients.

Pattern Classification with Multi-Layer Neural Network

Jun 2022 - Jul 2022

University of Florida

Gainesville, FL

- Implemented an image classification model on 2,500 images using TensorFlow.
- Improved workflow tracking and milestone management for better experiment reproducibility.

Awards & Leadership

- **Mahindra University Merit Scholarship:** 2020 – 2022 Awarded INR 1,00,000 annually for two years for outstanding academic performance.
- **Volunteer, Logistics Team:** Aether Fest - Mahindra University, 2019, 2022 Managed event coordination, resource allocation, and logistics for 1,000+ participants.