

SUJAN REDDY

Sunnyvale, California

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Education

University at Buffalo

Master of Science in Computer Science

Aug. 2024 – May 2026

Buffalo, NY

Global Academy of Technology

Bachelor of Technology in Computer Science & Engineering

June 2020 – June 2024

Bangalore, India

Technical Skills

Languages: Python, JavaScript, Java, C/C++, Go

Software: React, Node.js, FastAPI, REST APIs, WebSockets

Systems: Redis, gRPC, Docker, Kubernetes, AWS

Data: PostgreSQL, SQLite, SQLAlchemy, PySpark, Snowflake

AI/ML: TensorFlow, scikit-learn, LangGraph, LangChain, NLP

Professional Experience

IBM

Aug. 2023 – Feb. 2024

Software Engineer Assistantship

Bangalore, India

- Worked with the team under guidance on a Python predictive-analytics platform using TensorFlow and scikit-learn, contributing to a 25% improvement in prediction accuracy across 10,000 patient records.
- Supported data scraping and API automation for patient datasets, improving scraping efficiency by 98% and reducing manual data entry by 90%.
- Incorporated team feedback while helping improve the solution from data preparation through API-based retrieval.

DHI Flagship and Innovation Centre

July 2021 – Aug. 2022

Software Engineer Intern

Bangalore, India

- Worked with a team under guidance to develop a responsive web application using React.js, JavaScript, and Google Maps API, incorporating feedback while contributing to a 20% increase in user engagement.
- Supported performance optimization work that helped reduce page load times by 30% and increase average session duration by 15%.
- Collaborated with teammates to deliver fixes and improvements while learning the team's development practices.

Projects

Distributed Task Queue System | *Go, Redis, gRPC, Docker, Kubernetes*

- Designed a distributed task queue using Redis Streams and consumer groups to explore reliable job processing, service communication, and queue behavior.
- Implemented the system in Go with gRPC, Docker, and Kubernetes, focusing on failure handling and distributed worker coordination.

Local Lore – Map-First San Francisco Discovery Experience | *TypeScript, React, Next.js, MapLibre, GeoJSON* **GitHub**

- Built and deployed a map-first web application with React, Next.js, TypeScript, MapLibre, local PMTiles data, geographic zones, clustering, and responsive controls.
- Implemented source attribution, date filtering, accessibility context, and reduced-motion support while maintaining a typed catalog that validates and deduplicates approved-source updates.

FedLens – Agentic Federal Spending Analyst | *Python, FastAPI, LangGraph, PostgreSQL*

GitHub

- Built a Python agentic workflow that converts natural-language spending questions into typed database queries and returns source-backed explanations from PostgreSQL.
- Implemented FastAPI services, LangGraph orchestration, public-data ingestion, deterministic analysis, provenance metadata, and focused tests.

Achievements

- 1st place (Bangalore) in IBM Z Datathon (International; 3,000+ participants) for Multi-level Health Analysis.
- 1st place in Hack-A-League (National; 200+ participants) for Semantic Analyzer using NLP.