

G VENKATA SURYA SAI

939822487

suryaguntreddi11004@gmail.com

Venkata Surya Sai Guntreddi



G-Venkata-Surya-Sai

Education

Indian Institute of Technology, Hyderabad

Bachelor of Technology in Computer Science

June 2019 – May 2023

CGPA: 8.52/10

Technical Skills

Languages: C++, C, Python, Java, JavaScript, SQL

Frameworks & Libraries: .NET, React, Angular, BentoML, Jest, Jasmine, xUnit

Messaging & Infrastructure: RabbitMQ, Docker, Linux, AKS

Databases & Storage: Snowflake, MySQL, PostgreSQL, Redis, Azure Blob Storage

Developer Tools: GitHub, VS Code, Visual Studio

Experience

Providence Global Center

July 2023 – present

Hyderabad, India

Full stack Developer

- Developed standardized REST APIs using Python, BentoML to enable scalable model marketplace platform, supporting integration across **5 internal applications**.
- Designed a dual-mode inference architecture that separates real-time and long running workloads via synchronous APIs and RabbitMQ based asynchronous processing, ensuring high availability.
- Built a React based, configuration-driven UI to test and compare model accuracy using dynamic tiles, reducing testing and onboarding effort by **20%** without UI code changes
- Built a reusable Angular NPM package providing configurable tables and editable grid components, standardizing UI integration and supporting adoption across **10 applications**.
- Implemented a configuration-driven .NET REST API framework with Azure AD authentication to support secure, reusable CRUD workflows, currently used across **7 applications**
- Implemented role-based access control (RBAC) and optimized configuration management using Azure Blob Storage and Redis Cache, reducing build time and client onboarding effort by **10%**.
- Supported data engineering workflows by moving data from the staging to reporting layers in Snowflake using stored procedures and views, enabling reliable downstream reporting and analytics.

IIT Hyderabad

Aug 2022 – Dec 2022

Hyderabad, India

Undergraduate Researcher

- Designed VLAN based isolation for bare metal servers in a private cloud to support network forensics and secure experimentation.
- Evaluated SDN controllers (RYU, ONOS, POX) to implement network access control (NAC) within containerized environments.

Providence Global Center

May 2022 – July 2022

Hyderabad, India

Front End Developer Intern

- Identified redundant API calls through performance analysis of frontend workflows.
- Implemented session-storage caching using key-value pairs, reducing latency by **30%** and improving data retrieval speed.

Projects

SmartDocQA | Python, PostgreSQL, RAG

Oct 2025

- Developed a document based QA system that enables querying of PDF documents using RAG with Azure OpenAI embeddings, stored in PostgreSQL (pgvector) via LlamaIndex.

DB Management System | Java, DBMS

Apr 2022

- Built an in memory DBMS supporting complex logical and range queries using B+Tree, Hash, and Bitmap indexes with catalog driven query processing.

Socket Programming | Python, Networks

Dec 2021

- Implemented a multithreaded TCP client-server system enabling concurrent file uploads and downloads with reliable data transfer.

Stochastic Covid-19 Simulation | C, DSA

Apr 2021

- Implemented an event-driven simulation using priority queues and graph based modeling to analyze infection, recovery, and transmission dynamics.