

# G VENKATA SURYA SAI

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## Education

### Indian Institute of Technology, Hyderabad

June 2019 – May 2023

*Bachelor of Technology in Computer Science*

*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

*Full stack Developer*

*Hyderabad, India*

- 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

*Undergraduate Researcher*

*Hyderabad, India*

- 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

*Front End Developer Intern*

*Hyderabad, India*

- 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.