# Pavan Sai Teja Kondaiahgari

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## Education

## Indian Institute of Information Technology, Sri City

Bachelor of Science in Computer Science (CGPA: 9.00)

Aug 2019 – June 2023 Sri City, India

FIITJEE Junior College

Intermediate - MPC, TSBIE (Percentage: 95.2%)

Aug 2017 – June 2019

Hyderabad, India

## Experience

#### NCorium - AsterQuanta

July 2023 - Present

Software Engineer - Data Science

Bangalore, India

- Designed and implemented a **LiDAR convention** to standardize data from multiple vendors, ensuring seamless integration, consistent data streams, and improved system reliability.
- $\bullet \ \ Minimized \ \ inaccuracies \ \ by \ \ 20\% \ \ at the source \ level \ and \ refined \ data \ capture \ by \ optimizing \ aggregator \ parameters.$
- Optimized storage by 50% and accelerated data transmission by implementing an efficient data serialization.
- Developed a **Python** backend and **React** frontend application using **Plotly** to visualize data inaccuracies and assess algorithm impact on error rates, significantly accelerating the selection of high-accuracy models.
- Engineered efficient C++ processing algorithms and an optimal, **lightweight front-end VMS**, enabling seamless video playback **without straining client resources** and allowed for significant savings in video start latency and size.

## NCorium - AsterQuanta

April 2023 - June 2023

Software Engineer - Intern

Bangalore, India

- Designed and developed high-fidelity **pedestrian movement simulations**, generating realistic test data that enhanced pipeline validation, improved system robustness, and accelerated deployment of key features.
- Researched LiDAR sensor operations and implemented **interactive data visualizations** using **Matplotlib**, enabling better analysis of outputs, identifying anomalies, and improving debugging efficiency.
- Troubleshoot, fix, test software bugs and documenting updates for future development.

#### **Projects**

S-Process Funding | React, Flask, MongoDB, Redux, D3, Plotly

☐ Demo **〈/>** Code

- Developed a **Full-Stack** Grant Recommendation platform replicating the S-Process used by Survival and Flourishing Fund, enabling **collaborative decision-making** for grant allocations.
- Implemented a scalable Flask back-end, secured with JWT authentication and role-based access control.
- Used Redux for client state management and D3 and Plotly for interactive plots, graphs, and sankey chart
- Established a seamless development environment by configuring **environment variables**, virtual environments, and dependency management, ensuring consistent builds and efficient team collaboration.

**Kickstart** | React, NodeJS, MongoDB, Docker, Redis

☐ Demo **〈〉** Code

- $\bullet$  Led a team of 5 in developing a full-stack web application that helps entrepreneurs buy and sell startups.
- Architected and optimized the back-end logic of the application using NodeJS and MongoDB.
- Optimized application performance by implementing Redis for **efficient caching** and **containerized services** with Docker, ensuring seamless scalability and faster data retrieval.

Student Dashboard | NodeJS, ExpressJS, MongoDB

- Developed an aesthetic web application using HTML/CSS, Node, Express to automate student's tasks.
- Project was used by 1000+ university students to manage academic performance and track their daily activities.
- Helps admin to collect in-depth performance analysis of all students and efficiently improve communication with them.

#### Pocket Cube Solver | NodeJS, MongoDB

☐ Demo **〈/>** Code

- API that **computes all optimal** solutions for pocket cube or any random solution.
- Developed using NodeJS for the server and MongoDB to store pocket cube processed data.

# Technical Skills

Languages: C/C++, Python, Java, HTML/CSS, JavaScript, SQL

Technologies/Frameworks: Git, Tailwind, React.JS, NodeJS, Flask, AnyLogic, Redis, RabbitMQ, Docker

Other Skills: Data Structures and Algorithms, Object Oriented Programming, Database Management System, Web Dev

Databases: MongoDB, MySQL