

# PATHURI VENKATA SRI HARSHA

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## EXPERIENCE

### SDE-1

Cashfree Payments

📅 Jul. 2023 – Present

- Member of the cross-border payments, facilitating international transactions for Indian merchants
- Implemented reconciliation system for Global Collect transactions, preventing fund blockages.
- Implemented instant virtual account provision for merchant onboarding.
- Enhanced efficiency by automating parts of INR settlement process.
- Automated FIRA mapping to settlements, streamlining settlements and eliminating manual tasks.
- Built payment reversal flow for Global Collect, addressing transactions exceeding regulatory limits and flagged risks.
- Managed client calls and operational tasks effectively within a small team environment.

### R&D Intern

AICOE, Jio

📅 Jun. 2022 – Jul. 2022

- Explored the CUAD dataset for improvements in legal contract review question-answering models.

### Full Stack Developer

AIISH, Karnataka

📅 Jan. 2022 – Nov. 2022

- Designed and implemented backend system for a stuttering detection platform.
- Processed audio data and performed stuttering detection and analysis.
- Contributed to the publication of a research paper showcasing the platform's potential impact. [🔗](#)
- MongoDB, Flask, React, Docker, Nginx.

### Backend Developer

IHub-Data

📅 Jan. 2022 – Apr. 2022

- Designed and implemented a platform for publishing and managing dataset versions.
- Facilitated the publication and version control of datasets by verified users.
- Ensured data quality through admin review of the published content.
- MySQL, Django, Docker, Nginx, S3.

## EDUCATION

B. Tech in Computer Science and Engineering

**International Institute of Information Technology, Hyderabad**

📅 2019 – 2023

🎓 CGPA: 8.19

## PROJECTS

**Fast MxM** C, OpenMP, Intel oneAPI HPC Toolkit [🔗](#)

- Tuned matrix multiplication in C to perform as fast as the Intel MKL GEMM on a system with 48 Xeon Gold processors and 187 GB of main memory.

**Linux Shell** C, System Calls [🔗](#)

- A Bash-like shell in C using Unix system calls, with support for process management, signal handling, and chained redirection and piping.

**Xv6** C, Scheduling, Kernel Data Structures [🔗](#)

- Implemented FCFS, Priority Based Scheduler and Multi-level Feedback Queue scheduler. Created new system calls by coding own kernel data structures.

**Concurrent Simulations** C, Multithreading [🔗](#)

- Used concepts of multithreading, mutex locks, semaphores and process synchronization to simulate real-world scenarios.

**Theme Park Management** Python, MySQL [🔗](#)

- Programmed an SQL engine for theme-park maintenance with support for retrieval from multiple tables, conditions, aggregations, grouping, and ordering with a python CLI.

**Visualizer** React JS [🔗](#)

- An online interactive visualizer of DFS, BFS, Dijkstra's algorithm, Kruskal's algorithm and Prim's algorithm with detailed processing of each step using graphs and source codes.

## SKILLS

Experienced

Gnu/Linux, Vim, Java, Python, C, C++, Django, Flask, MySQL, Docker

Familiar

OpenMp, Numpy, ReactJS, NodeJS

## POSITION OF RESPONSIBILITY

- TAed multiple courses at IIIT-H.
- Managing a personal server hosting various self-hosted open-source tools, including a website and an SMTP server.

## PUBLICATIONS

1. Kowshik Siva Sai Motepalli et al. (2023). "Stuttering Detection Application". In: *Proc. INTERSPEECH 2023*, pp. 680–681