

Education

## Manipal Institute of Technology

Manipal, Karnataka

Computer and Communication Engineering

Expected Graduation: May 2023

**cGPA**: 8.48

o Sem 1: 7.64 | Sem 2: 8.45 | Sem 3: 8.38 | Sem 4: 8.71 | Sem 5: 8.95 | Sem 6: 8.45 | Sem 7: 9.00

# Experience

#### Fermi National Accelerator Laboratory

Batavia, Illinois

Research Intern, Computing

26.05.2022 - 22.07.2022

Accelerated a widely used Python file I/O library using a lightweight DSL, achieving a 300x gain in performance when reading specific data types of interest.

Princeton University Remote

Research Intern

04.04.2021 - 30.08.2021

 Developed a clustering library for particle physics data. The library showed a 25x throughput increase over the fastest alternative.

# **Key Skills**

- o Programming Languages: Python, C/C++, Java, Forth, SQL
- Tools: Data Structures and Algorithms, Object Oriented Programming, Data Mining and Predictive Analysis, Introduction to Big Data

### **PROJECTS**

#### **Pathfinders**

o Built a Python library for path finding in a given map with a vectorized interface and a C++ back-end.

## **Shakespeare Generator**

 Trained a decoder only transformer for generating Shakespeare like text using a bigram language model and character level tokenization.

#### Achievements

- o IRIS-HEP Fellowship: Awarded the Fellowship twice.
- AUVSI SUAS 2022: Part of the team that placed  $18^{th}$  qlobally.
- Mahindra Rise Prize: Part of the only UG team to qualify for the finals.
- o Blue Sail Hackathon, 2019: Runner Up