

Shiv Sharma

• 979-949-2193 • shiv.sharma@students.iiit.ac.in

• [linkedin.com/in/shiv-sharma779](https://www.linkedin.com/in/shiv-sharma779)

EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY

Master of Technology w/ specialization in Computer Science | **10(CGPA)**

Hyderabad, Telangana
August 2020 - June 2022

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Rajasthan Technical University

Bachelor of Technology in Computer Science | **71.92%**

Jaipur, Rajasthan
Kota, Rajasthan
Aug 2016 - May 2020

SENIOR SCHOOL EXAMINATION (XII)

St. Anselm's Sr. Sec. School(CBSE) | **87.6%**

Jaipur, Rajasthan
2016

SECONDARY SCHOOL EXAMINATION (X)

St. Anselm's Sr. Sec. School(CBSE) | **9.6(CGPA)**

Jaipur, Rajasthan
2014

EXPERIENCE

IIT, KHARAGPUR

Summer Internship

Kharagpur, West Bengal
May 2019 - July 2019

- Worked with **Prof. Vikranth Racherla** on **Android** application integration for **Laser profilometer**
- **Developed** an android application to **remotely** use laser profilometer which scans the wheel profile
- **Determined** if the wheel needs **reprofiling** or not, from the results stored in serverless NoSQL server
- Applied **searching** criteria for wheels based on the train number and depo allotted for maintenance
- **Reduced time** for maintenance of train wheel by providing quick access to its profile

PROJECT

LINUX VIRTUAL LAB BACKEND DEVELOPMENT | FLASK, JS, DOCKER, SHELL-IN-A-BOX

- Development linux virtual lab backend for Software Engineering Research Center based on docker
- Ram, CPU, Storage and time boundation were provided to container with front with shellinabox service
- Hardened image for no container to container communication and with udev security monitoring

MINI TORRENT | C++, PTHREADS, SYSCALL

- Built a simple file-sharing system with **multi-tracker** system and groups with **pthread**s and **syscalls**
- Support for **parallel downloading** and implemented **piece wise selection** algorithm.

FACENET IMPLEMENTATION | PYTORCH

- Implemented a model to directly learn a mapping from face images to a **compact Euclidean space** where distances directly correspond to a measure of face similarity.
- Used **triplet** loss with **Inception**s model to implement facenet research paper

TERMINAL BASED FILE EXPLORER | C++, SYSCALL

- Built a fully functional File Explorer Application, albeit with a restricted feature set.
- **Normal mode** (default mode) - used to explore the current directory and navigate the filesystem
- **Command mode** - used to enter shell commands (move, copy, rename, delete, search)

SKILLS

- **Programming Languages:** C++, Python, SQL, HTML, CSS
- **Operating System:** RHEL, Arch, Debian
- **Python Libraries:** Numpy, Pandas, Sklearn, Flask
- **Other Technologies:** AWS, GIT, Ovirt, Android Studio

CERTIFICATIONS

- Red Hat Certified Specialist in **Virtualization**
- Red Hat Certified Specialist in **Server Security and Hardening**
- Red Hat Certified Engineer and **System Administrator**

ACHIEVEMENTS AND POSITION OF RESPONSIBILITY

- Got **98.06** percentile in **Gate 2020** examination
- Served as **Team Leader** of **Outgoing Global Entrepreneur** department(AIESEC in Jaipur)
- Served as **coordinator** in the hospitality department for Renaissance Cultural Event 2019