

Harpinder Jot Singh

+91-8840214269 | [University Email](#) | [Personal Email](#) | [Linkedin](#) | [Github](#)

EDUCATION

BITS Pilani

Bachelor of Engineering(Hons.) Computer Science, GPA: 9.57/10

Rajasthan, India

Jun 2017 – May 2021

EXPERIENCE

Intern, Member of Technical Staff

Nutanix

Jan 2021 – Present

Bangalore, India

- Working in team Objects on building a developer edition of the product
- Modifying existing way of storing objects to use native file system
- Getting the product reachable to more customers by making deployment procedure fast and simple

Software Engineering Intern

Salesforce

May 2020 – July 2020

Hyderabad, India

- Implemented generic printable view and PDF generation functionality for Rebates feature in Manufacturing Cloud
- It helped manufacturers to generate reports for audit and archival purposes, and the product got integrated with other clouds for similar functionality
- Tech Used: Lightning Web Components, AURA Components, Visualforce, APEX, SOQL

Research Intern

Indian Institute of Remote Sensing (IIRS, ISRO)

May 2019 – July 2019

Uttarakhand, India

- Developed a web platform to plot, visualize and analyze satellite imagery data
- Implemented a graphical visualization using WMS layers served through QGIS
- Platform helped researchers to quickly test and verify new theories on remote sensing indices
- Tech used: Open Data Cube, HTML/CSS, JS, Python, Django

Freelancer | [Profile](#)

Fiverr

Sept 2020 – Dec 2020

Remote

- Performed various scripting, automation, database interaction gigs using C, Java, Python, and Javascript.
- Completed 25 projects, worth 2000 USD

TECHNICAL SKILLS

Languages: C, C++, SQL, JavaScript

Developer Tools: Git

PROJECTS

Storage System - Cloud Computing | *Python, Flask, Zookeeper* | [Github](#)

Nov 2020

- A storage system for Shopping Cart data, and an API to access it written in Python
- Implemented Leaderless replication, data partitioning, and eventual consistency
- Used CRUSH hash function for mapping, Zookeeper for coordination, read-repair using version vectors for consistency and Flask to build the API

Compiler Construction | *C* | [Github](#)

Jan 2020 – Apr 2020

- Implemented a compiler for a custom language in C
- Implemented lexical Analyzer, Syntax Analyzer, Semantic Analyzer, and Code generator modules

Shell development - UNIX Programming | *C* | [Github](#)

Apr 2020

- Command-line shell using low-level System programming and Network Programming in Unix
- Implemented pipelining, I/O redirection, creation, and I/O through shared memory and TCP sockets

VOLUNTEER EXPERIENCE

Computer Programming Teaching Assistant

BITS Pilani

Jan 2020 – May 2020

Rajasthan, India

- Assisted in the evaluative lab components in the course registered by ~ 500 freshmen
- The role involved doubts solving, invigilation, and content development for the practice of students

Joint Coordinator

Coding Club

May. 2019 – Apr 2020

BITS Pilani

- Led a team of 70 student developers overseeing the conduction of various technical events hosted by the Coding Club during APOGEE, technical fest of BITS Pilani

Teacher

National Service Scheme (NSS)

Aug. 2017 – Apr 2019

Rajasthan, India

- Prepared class XI students for Indian Engineering entrance exam - JEE Mains
- Volunteered as a tutor for high school students

SCHOLARSHIP

- Received BITS Pilani Merit Cum Means Scholarship for all semesters awarded to the top 3% of the students