

Harpinder Jot Singh

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EDUCATION

BITS Pilani

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

Rajasthan, India

Jun 2017 – May 2021

Relevant Courses: Operating Systems, Cloud Computing, UNIX and Systems Programming, Object Oriented Programming, Data Structure and Algorithms, Database Systems, Computer Networks

EXPERIENCE

Intern, Member of Technical Staff

Jan 2021 – Present

Nutanix

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

May 2020 – July 2020

Salesforce

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

May 2019 – July 2019

Indian Institute of Remote Sensing (IIRS, ISRO)

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](#)

Sept 2020 – Dec 2020

Fiverr

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++, Java, SQL, Javascript

Developer Tools: Git, Github

Operating System: Linux

PROJECTS

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

Nov 2020

- A distributed 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

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

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

VOLUNTEER EXPERIENCE

Computer Programming Teaching Assistant

Jan 2020 – May 2020

BITS Pilani

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

May. 2019 – Apr 2020

Coding Club

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

Aug. 2017 – Apr 2019

National Service Scheme (NSS)

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