

# Jayati Shrivastava

Upcoming interns at Google Hardware (Summer 2021) | MLH Fellowship (Fall 2020)  
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## EDUCATION

### Bachelor of Technology

INDIAN INSTITUTE OF TECHNOLOGY (IIT)  
ROORKEE  
BTech in Electrical Engineering  
3rd yr | Expected: 2022  
CGPA: 9.314 / 10

### Senior Secondary Education

VIVEKANANDA PUBLIC SCHOOL  
Central Board of Secondary Education  
Marks: 95%

### Secondary Education

SOPHIA SECONDARY SCHOOL  
Central Board of Secondary Education  
CGPA: 10 / 10

## LINKS

Github: [victorphoenix3](#)  
Phabricator: [JayatiShrivastava](#)  
LinkedIn: [jayatishrivastava](#)

## SKILLS

**Languages:** Python, C/C++, PHP, JavaScript, SQL, Bash, MATLAB

**Web:** Django, Flask, React, Jekyll, HTML, Apache2

**Database:** MongoDB, PostgreSQL, MySQL, SQLite

**Version Control:** Git, Mercurial

**Others:** Vim, Shell Scripting, Simulink, Altium, LTspice

## OPEN SOURCE

Contributed to the codebases of:  
Firefox, Mozilla  
FastAPI  
phpMyadmin  
Typer  
Zulip

## COURSEWORK

Network Theory  
Quantum Computing  
Computer Programming & Numerical Methods  
Data Structures and Algorithms  
Microprocessors and Peripheral Devices  
Digital Electronics  
Analog Electronics  
Design of Electronic Circuits  
Mathematical Methods  
Machine Learning by Andrew Ng  
Economics

## EXPERIENCE

### Major League Hacking | DEVELOPER

Mar 1 - Aug 23

- One of the 144 students selected out of the 20,000 applicants worldwide
- Implemented request bodies and representational parameters for FastAPI in Python and debugged multiprocessing issues
- Developed a peer-to-peer video chat application using WebRTC and a task scheduling app using React and Flask
- Resolved bugs, added unit tests in Python alongside updating documentation for Flask, Typer, FastAPI, Click and Httpie

### Firefox, Mozilla | STUDENT DEVELOPER

Mar 2020 - Present | [Link to patches](#)

- Worked on Firefox Desktop Frontend, Firefox Security & Privacy UI, SSL Certificate Error pages and Site Permissions
- Have 30+ patches merged into the Firefox codebase and worked on resolving 50+ bugs

## PROJECTS

### Battery Charger | PROF AVIK BHATTACHARYA | IIT ROORKEE

10 Oct 2019 - 25 Nov 2019

- Simulated full-wave rectifier circuit with Resistive and RC Load on LTspice and calculated charging time for 56 V batteries
- Performed a literature review of different methods of reducing ripples in rectifier circuits

### Rendezvous and Docking | PROF SOHAM CHAKRABARTY | IIT ROORKEE

27 May 2019 - 10 Jul 2019

- Solved differential systems for docking and berthing of spacecrafts in MATLAB
- Performed a literature review of Control Systems for docking and berthing of spacecrafts

### 8-bit PCB

- Designed the circuit board for an 8-bit computer using **Altium**.
- Reviewed the internals of microprocessors, transistors and logic gates to build a working model of an 8-bit computer that can perform basic arithmetic calculations.

### PhoenixChat | LINK

- Created a 1-to-1 chat application with login and registration features using **Django, Django RestFramework, Django Channels** and **PostgreSQL**.

### PhoenixTicTacToe | LINK

- Created a Tic-Tac-Toe game application using **ReactJS, Django** and **SQLite**.

## ACHIEVEMENTS

- Two-time recipient of the Major League Hacking Fellowship award, selected out of 20,000 applicants worldwide
- Awarded Certificate of Distinction by RBSE for performance in State Talent Search Examination
- Awarded Certificate of Merit by CBSE for being among the top 0.1 percent of successful candidates in Physical Education
- Recipient of scholarship from KCC,Hindustan Copper Limited (HCL) for academic excellence in Class X and XII

## POSITIONS OF RESPONSIBILITY & EXTRACURRICULARS

### **Chief Website Coordinator** | WATCH OUT!

Aug 2018 - Present

- Lead the web team of student developers and maintain the website for the official media body of IIT Roorkee campus
- Tech Stack involved: Jekyll, Sass, HTML and Markdown

### **Teaching Assistant** | ACADEMIC REINFORCEMENT PROGRAM

Aug 2019 - Nov 2019

- Assisted the entire class of 80+ students with the course HS-001B Advanced communication skills
- Orchestrated regular doubt-resolving sessions and provided study material for improved performance of the students

### **Editor** | KSHITIJ

Aug 2018 - Jul 2019

- Penned articles, poems and reviewed books for multiple editions of the magazine as the member of English Editorial cell
- Organised and participated in Eunoia,the Spoken Word poetry event to foster literary culture in the campus
- Participated in monthly book discussions organised to encourage reading among the student populace

### **Right to Education** | NATIONAL SERVICE SCHEME

Jul 2018- May 2019

- Organized tutoring sessions and provided study material to assist school children at rural areas with their education

### **Co-Coordinator** | COGNIZANCE

Mar 2019

- Coordinated panel discussions, guest talks and lectures organized during the official technical fest of the campus