

EDUCATION

Bachelor of Technology

INDIAN INSTITUTE OF TECHNOLOGY (IIT)

ROORKEE

Major: Electrical Engineering

Minors: Computer Science

3rd yr | Expected: 2022

CGPA: 9.314 / 10

LINKS

Github: [victorphenix3](#)

Phabricator: [JayatiShrivastava](#)

LinkedIn: [jayatishrivastava](#)

ACHIEVEMENTS

Google Kickstart 2020

Global Rank: 625

Google CodeJam to I/O for Women 2020

Global Rank: 497

MLH Fellowship

Among 150 selected out of 20,000 applicants worldwide

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: Simulink, Altium, LTspice

OPEN SOURCE

Contributed to the codebases of:

Mozilla Firefox

Jest

FastAPI

phpMyadmin

Typer

COURSEWORK

Network Theory

Quantum Computing

Data Structures and Algorithms

Microprocessors and Peripheral Devices

Digital Electronics

Analog Electronics

Design of Electronic Circuits

Machine Learning by Andrew Ng

EXPERIENCE

Jest | MAJOR LEAGUE HACKING FELLOW

Sep 2020 - Dec 2020

- Implemented Finite State Machine model for Jest Reporter API
- Implemented new command-line flags and resolved bugs for Jest-cli

FastAPI | MAJOR LEAGUE HACKING FELLOW

Mar 2020 - Aug 2020

- Implemented request bodies and representational parameters for FastAPI in Python and debugged multiprocessing issues
- Resolved bugs, added unit tests in Python alongside updating documentation for Flask, Typer, FastAPI, Click and Httpie

Firefox, Mozilla | STUDENT DEVELOPER

Mar 2020 - July 2020 | [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

phpMyAdmin | OPEN SOURCE CONTRIBUTOR

Dec 2019 - Feb 2020 | [Link to PRs](#)

- Have around 20 pull requests merged into the codebase.
- Tech Stack: PHP, Ajax, database handling and operations on MySQL and MariaDB.

PROJECTS

Battery Charger | PROF AVIK BHATTACHARYA | IIT ROORKEE

- Simulated full-wave rectifier circuit with Resistive and RC Load on LTspice and experimented different methods of reducing ripples in rectifier circuits

Rendezvous and Docking | PROF SOHAM CHAKRABARTY | IIT ROORKEE

- Solved differential systems for docking and berthing of spacecrafts in MATLAB

8-bit PCB | IIT ROORKEE

- Designed the circuit board for an 8-bit computer using Altium.

PhoenixChat | LINK

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

webRTCchat | LINK

- Created a peer-to-peer webRTC video chat application using simple-peer npm package

PhoenixTicTacToe | LINK

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

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