

# Sumit Kumar Jha

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## Education

Motilal Nehru National Institute of Technology Allahabad, Prayagraj	2020 - 2024
- Computer Science and Engineering (7th semester)   7.9 CPI	
Dedraj Sewali Devi Todi DAV Kedia Vishwabharti School, Biratnagar, Nepal	2018 - 2019
- CBSE (XII grade)   79.8%	
Dedraj Sewali Devi Todi DAV Kedia Vishwabharti School, Biratnagar, Nepal	2016 - 2017
- CBSE (X grade)   9.2 CGPA	

## Projects

### Malware Detector 🔗

Apr 2024 → May 2024

Model training for detecting malware and benign programs in the windows

Works on semi supervised learning where it detects the characteristics of PE file and categorizes malware

Also uses tokenization of data based on the history of URLs in order to distinguish a bad DNS route

### Job Hunt 🔗

Aug 2023

Website for finding jobs in the marketplace

Tech Stack : ReactJS, NodeJS, ExpressJS, MongoDB

- A web-application to find jobs, for the tech roles
- Login/signup feature for both users and creators and application to different jobs.
- Contains a creator panel, which are authorized and can create the jobs with descriptions and locations
- Jobs can be edited and changed by the creators and can accept/decline the applicants

### Shopi 🔗

Jul 2023 → Sep 2023

Prototype website with payment integration for buying electronics

Tech Stack : ReactJS, NodeJS, ExpressJS, MongoDB

- A user friendly web-application where customers can make orders for electronics
- Login/signup feature for both users and admin
- Contains an admin panel, where admins can change the authorizations and track details of orders.
- Website maintains the order details for both customer and admin.

### Modified Copra 🔗

Jan 2023 → Mar 2023

Overlapping communities detection algorithm using nodes

The propagation check of the algo was changed for unlabelled random nodes,

IL value was changed and propagation basis of neighbor nodes with same label, #labels, degree were taken

## Technical skills and Interests

**Languages :** C, C++, Python, JavaScript, TypeScript

**Developer Tools :** VScode, Postman, Git, Github, Slack, Docker

**Database :** MySQL, MongoDB

**Areas of Interest :** Data Structures, Algorithms, Web Development

**Development techstack :** SASS, ReactJS, JavaScript, Tailwind, NodeJS, ExpressJS, MongoDB, NextJS

**Courses Taken :** Operating System, DataBase Management system, Object Oriented Modelling, Computer Networks

## Core Competencies

C/C++ (design and coding skills)

Computer Science core technologies

Problem Solving and Algorithmic Understanding

## Achievements

Solved 600+ coding problems on various coding platforms

Scored 2100 in SAT subject Test [SAT II]

## Position of Responsibility

Mentor at Student Mentorship Portal [SMP], Computer Science and Engineering department, MNNIT