

# Dhruv Mishra

**Address:** House No.65, Block J, Dilshad Colony, Delhi, India

**Socials:** [LinkedIn](#), [GitHub](#)

## EDUCATION

### Bachelor of Technology in Computer Science and Applied Mathematics,

IIIT-Delhi

Dec 2020 – Jun 2024

**CGPA:** 8.92 / 10.0

### Senior Secondary Education in Science with Computer Science

Amity International School

Apr 2018 – Apr 2020

**Percentage:** 95%

## SKILLS

**Languages:** C++, Python, Java, TypeScript, Javascript, C, Bash, HTML

**Database:** MySQL, MongoDB

**Version Control:** Git, ADO

**Additional:** Scipy, Tensorflow, GANs, TensorflowHub, Microsoft Power Automate, Microsoft Fluid Framework, Google Cloud Platform, Django, Docker, FASTAPI, Google Earth Engine, VMWare, JavaFx, Remote Sensing, REST API, Comp. Vision(OpenCV)

### Technical Electives:

- Foundations of Computer Security
- Machine Learning (ML)
- Computer Networks (CN)
- Advanced Programming (OOPS)
- Database Management (DBMS)
- Operating Systems (OS)
- Analysis and Design of Algorithms

**Skills:** Software Systems, Software Engineering, Problem Solving, Information Retrieval, Troubleshoot, Software Design, Algorithm Design, Collaboration, Hardworking

## PORs

- Student Senate Batch Rep.
- Member of Organising Team at ESYA, Kohinoor, Farewell, etc.

## CONTACTS

• **Email:** dhruv110302@gmail.com

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## WORK EXPERIENCE

### Software Engineering Intern | Microsoft

May 2023 – Jul 2023

- Developed and Tested a connection management service for an upcoming Microsoft product by implementing core functionalities to establish a connection with the Jira Platform.
- Integrated and Tested GitHub and Azure DevOps (ADO) REST APIs into the Microsoft Power Platform Connector, enabling automation and streamlined developer workflows.

### Undergraduate Researcher | Distributed Computing and Learning Lab, IIITD

Aug 2023 – Current

- Working on a Lock-Free, Relaxed Concurrent Data Structure based on a counting bloom filter but with higher bandwidth for more write and read operations in multi-threaded settings. It focuses on reducing thread contention, leading to much faster writing in thrashing databases.
- The current implementation allows up to a 300% increase in throughput. The entire implementation is in C++, with the testing code using Python.

### Software Engineering Intern | growIndigo

Feb 2024 – May 2024 | Apr 2022 – Jun 2022

- Automated the prediction of the crop type through Google Earth Engine, thus reducing the time taken in the process by 80%.
- Ported and Tested the automated workflow outside Google Earth Engine for scaling through Python, implementing every necessary function and API required for porting out of Google Earth Engine Platform.

### Teaching Assistant | IIIT Delhi

Aug, 2022 – Nov, 2022

- Teaching assistant for the Introduction to Programming course(CSE-101) under Professor. Pankaj Jalote

## PROJECTS

### [Course Similarity Evaluator](#) | Prof. Dhruv Kumar

- A tool that helps students and teachers identify overlapping courses within the course directory to avoid redundant courses.

### Property Listing Website: **Security** | Prof. Arun Balaji Buduru

- A property listing website with FASTAPI backend, HTML CSS Front End, and MongoDB database, focusing on security. Built for withstanding attacks in the course 'Foundations of Computer Security.'

### [Instant Vital Checkup](#)

- An OpenCV-based application with an intuitive UI to estimate a person's physical measurements and vitals through video.

### [Banking System](#) | Prof. Mukesh Mohania

- An E2E, multi-user banking system with database management, essential security features, and a user-friendly interface.

## AWARDS AND ACHIEVEMENTS

- [Codeforces Expert](#) (Peak Rating: 1703)
- [Codechef 5\\* Rated Coder](#) (Peak Rating: 2003(Old Rating System))
- **Global Rank 167** in Reply Code Challenge
- Google Code Jam(2023) Round A **Global Rank #291**
- Google Kickstart(2022) Round-H **Global Rank #362**

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