

Dhruv Mishra

Address: Delhi, India
Socials: [LinkedIn](#), [GitHub](#)

EDUCATION

Bachelor of Technology in Computer Science and Applied Mathematics,

IIIT-Delhi

Dec 2020 – Jun 2024

CGPA: 8.96 / 10.0

Graduated with **Academic Honors**

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: Jest, 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), Atomic

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, Testing

PORs

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

CONTACTS

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WORK EXPERIENCE

Software Engineer | Microsoft

Jun 2024 - Current

- Raised the unit test coverage for multiple packages from 5-10% to 60+% using typescript and jest within a few weeks of joining Microsoft Loop
- Resolved multiple bugs and work items on functionality and performance.

Software Engineering Intern | Microsoft

May 2023 - Jul 2023

- Developed and Tested a connection management service with Singleton Design pattern for Microsoft Loop by implementing core functionalities to synchronize connection status among multiple instances with the Jira Platform. Later implemented as a generic service used across all integrations (Jira, Trello, GitHub, ADO etc.)
- Integrated and Tested GitHub and Azure DevOps (ADO) REST APIs into the Microsoft Power Platform Connector, enabling automation.

Undergraduate Researcher | Distributed Computing and Learning Lab, IIITD

Aug 2023 - Jul 2024

- Researched a relaxed Concurrent Data Structure to increase write and read operations in multi-threaded settings in Counting Bloom Filters. We are working on reducing thread contention for speedup.
- 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 - Jun 2024 | Apr 2022 - Jun 2022

- Automated the prediction of the crop type through Google Earth Engine (GEE), reducing the time taken in the process by 80%.
- Omitted GEE scaling through Python, implementing every necessary function and API. Reduced the overall time for a classification workflow, increasing the classification accuracy to 93%+ from the previous 80%.

Teaching Assistant (CSE-101) | IIIT Delhi

Aug 2022 - Dec 2022

- Under the founding director of IIIT Delhi, Dr. 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.

[Snakes and Ladders](#) | Prof. Koteswar Rao Jerripothula

- A javafx based snakes and ladders game with strong focus on principles of OOPs, Optimizations and Design patterns

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**