

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, TypeScript, Java, Javascript, Kotlin, C, Bash

Database: MySQL, MongoDB

Version Control: Git, ADO

Additional: Jetpack Compose, 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

- IIITD Student Senate Representative
- Member of Organising Team at college fests and events ESYA, Odyssey etc.

CONTACTS

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WORK EXPERIENCE

Software Engineer | Microsoft

Jun 2024 - Current

- **Owner** of the [Fluent UI Android](#) Repository, introducing new components, bug fixes and feature updates with every release and supporting partner teams who use Fluent Components. Based on **Kotlin** and **Jetpack Compose**.
- Raised the unit test coverage for multiple packages from 5-10% to 60+% using **Typescript**, Triaged and resolved multiple bugs and work items on functionality and performance with P1 and P2 priority for **Dogfood** and **Production** stages of [Microsoft Loop](#).

Software Engineering Intern | Microsoft

May 2023 - Jul 2023

- Developed and Tested a connection management service with **Singleton** Design pattern using **Typescript** 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%.

PROJECTS

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

- A **Python** based Machine Learning tool that intelligently recommends courses to teachers and students based on multiple input parameters.

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

[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 **SQL** 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)
- **Global Rank 167** in Reply Code Challenge
- Google Code Jam(2023) Round A **Global Rank #291**
- Google Kickstart(2022) Round-H **Global Rank #362**