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
- **Tel. :** (+91) 95993-77944

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**