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 and related ADO pipelines, introducing new components and feature updates with every release and supporting Microsoft partner teams. Based on **Kotlin** and **Compose** with YAML based Azure Pipelines for Build, Releases and Deployment.
- Contributor in **Microsoft Office Monorepo** as part of the SharedUX team, improving on High Value Scenarios by replacing legacy layouts with Jetpack Compose within the WXP and Office Mobile Apps. **Android Development** based on **Java**, **C++** and **Kotlin** with **XML** and **Compose based UI**.
- Triaged and resolved multiple bugs and work items on performance and functionality resolving high priority scenarios for **Dogfood** and **Production** stages of Microsoft Loop. Raised the unit and end to end test coverage for all packages within Microsoft Loop project to 60+%. Based on **Typescript**.

Software Engineering Intern | Microsoft
May 2023 - Jul 2023
- Developed a connection management service 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.). Still being used for all 3P integrations within Loop.
- Integrated and Tested GitHub and Azure DevOps (ADO) **REST APIs** into the Microsoft Power Platform Connector, enabling automation workflows.

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 worked on reducing thread contention for speedup.
- The latest 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 AND CONTRIBUTIONS

Rhinestone SDK
- Contributor in the ERC–7579 based moduleSDK for Account Abstraction.

Course Similarity Evaluator | Prof. Dhruv Kumar
- **Python** based Machine Learning tool that intelligently recommends courses to teachers and students based on multiple input parameters.

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.

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**