

# Dhruv Mishra

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## EXPERIENCE

### Software Engineer

Jun. 2024 – Present

Microsoft

Noida, India

- Revamped Excel's Compose Shimmer loading architecture, adding Compose warmup sequences on UI thread, adding baseline profiles and optimizing XML and Compose interactions; reduced shimmer component load times by **99% (300ms → 3ms)**, while staying on Compose, improving perceived latency for **millions of users**.
- Identified and patched inefficiencies in VM Scale Sets and log replication strategies, resulting in verified annualized savings of **\$240,000** for the **ShellService** Backend (Handling 7B+ hits/day).
- Managed the release lifecycle as the sole owner for **Fluent UI Android** across 10 releases for **10+ partner teams** (including Copilot, Office, Outlook, OneDrive and Teams).
- Secured the **Android Shared Service** by achieving **100% security compliance** as the Sole Security Owner.
- Reduced external file open latency by **~500ms** for **Office Mobile (WXP)** by designing custom baseline profiles targeting critical "Cold Start" scenarios, boosting App Apex scores.

### Software Engineering Intern

May 2023 – July 2023

Microsoft

Noida, India

- Architected a connection management service for **Microsoft Loop** that synchronized connection states across multiple 3rd-party integrations (Jira, Trello, GitHub), now serving as the generic backend for all **3P integrations**.
- Integrated GitHub and Azure DevOps REST APIs into **Power Platform Connectors**, enabling automated workflows for thousands of enterprise developers.

### Software Engineering Intern

Feb. 2024 – Jun. 2024

growIndigo

Delhi, India

- Reduced crop classification workflow time by **80%** while increasing accuracy to **93%+** by replacing Google Earth Engine scaling with a custom Python-based classification pipeline leveraging XGBoost and RandomForests.

## TECHNICAL SKILLS

**Languages:** Kotlin, Java, C++, Python, TypeScript, SQL, JavaScript, KQL, C, Bash, Powershell

**Technologies:** Android (Jetpack Compose, XML, Gradle, Maven), Git, Docker, DevOps (Pipelines, VMSS), NPM, Yarn

**Concepts:** System Design, Distributed Systems, Data Structures & Algorithms, CI/CD, Databases, Machine Learning

## EDUCATION

### Indraprastha Institute of Information Technology (IIIT-Delhi)

Delhi, India

Bachelor of Technology in Computer Science and Applied Mathematics

Dec. 2020 – Jun. 2024

- CGPA: 8.96 / 10.0 (**Graduated with Academic Honors**)
- **Undergraduate Researcher** at DCLL: Achieved **300% throughput boost** in Counting Bloom Filters with minimal impact on false positive and negative rates using relaxation and concurrency under Prof. Bapi Chatterjee
- **Developed** a Course Recommendation System as an engineering project under Prof. Dhruv Kumar

## ACHIEVEMENTS

**Codechef:** 5\* Rated Coder (Peak Rating: **2003**) - Top **1%** globally.

**Codeforces:** Expert (Peak: **1703**) | Alt (Max: **Expert**) - Top **~10%** globally.

**Competitions:** Google Farewell Round (2023) Round A Global Rank **#291** | Global Rank **#353** in Google Kickstart (2022) Round H | Global Rank **#167** in Reply Code Challenge

**Awards:** Winner of Microsoft Global FHL, 2025 Award (Fundamental Category) for "WXP ActionEase".

## PROJECTS

### Hybrid Recommender System | Python, Scikit-learn, Pandas, SVD, Tensorflow

- Developed a context-aware hybrid movie recommendation system integrating **Collaborative, Content-based, and Demographic filtering** to solve the "Cold Start" problem and personalize content for diverse user groups.

### Instant Vital Checkup (IVC) | Python, OpenCV, Machine Learning

- Developed a contactless vital monitoring system using **OpenCV** and **Computer Vision** to estimate physiological metrics (Heart Rate, BMI, Height) from real-time video feeds, automating patient triage workflows.