

Dhruv Mishra

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EXPERIENCE

Software Engineer

Jun. 2024 – Present

Microsoft

Noida, India

- Engineered Excel's Shimmer loading architecture, slashing load times by **99% (300ms → 3ms)** and achieving an **80x performance boost** impacting **millions of daily active users** by optimizing Compose warmup sequences, native library interactions and app thread loading.
- Reduced cloud infrastructure costs by **\$240,000/year** for **ShellEngineering** by optimizing VM Scale Sets, Redundancy Configurations, log replication strategies and more, directly impacting operational efficiency (COGS).
- Directed the **Fluent UI Android** lifecycle as Primary Owner, delivering **10 major releases** adopted by **10+ partner teams (MS Copilot, Teams, Outlook)** by orchestrating architectural design, and global publishing.
- 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: Global Rank **#291** in Google Farewell Round (2023) Round A | 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 recommender system integrating **Collaborative, Content-based, and Demographic filtering** to solve the "Cold Start" problem and personalize content for diverse user groups.

Dukh_Bank | Java, SQL, JDBC, Swing

- Architected a multi-user banking database management system handling concurrent transactions with **zero data anomalies** by implementing ACID properties and a robust JDBC-Swing interface.