

Dhruv Mishra

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EXPERIENCE

Software Engineer <i>Microsoft</i>	Jun. 2024 – Present Noida, India
<ul style="list-style-type: none">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 Apdex scores.	
Software Engineering Intern <i>Microsoft</i>	May 2023 – July 2023 Noida, India
<ul style="list-style-type: none">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 integrationsIntegrated GitHub and Azure DevOps REST APIs into Power Platform Connectors, enabling automated workflows for thousands of enterprise developers.	
Software Engineering Intern <i>growIndigo</i>	Feb. 2024 – Jun. 2024 Delhi, India
<ul style="list-style-type: none">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) <i>Bachelor of Technology in Computer Science and Applied Mathematics</i>	Delhi, India Dec. 2020 – Jun. 2024
<ul style="list-style-type: none">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 ChatterjeeDeveloped 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 <i>Python, Scikit-learn, Pandas, SVD, Tensorflow</i>	<ul style="list-style-type: none">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) <i>Python, OpenCV, Machine Learning</i>	<ul style="list-style-type: none">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.