Dhruv Mishra

📞 (+91) 95993-77944 | ✉ dhruvmishra.id@gmail.com | 💼 LinkedIn | 🐙 GitHub | 🌐 whoisdhruv.com

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 Apdex 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, Google Cloud Platform (GCP), DevOps (Pipelines, VM Scale Sets), NPM
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

Portfolio Website | *Next.js, TypeScript, Tailwind CSS, GCP, Nginx*
- Engineered a high-performance static site using **Next.js**, **TypeScript**, and **Tailwind CSS**; hosted on a **Google Cloud E2 Micro** instance via **Nginx**, with **Cloudflare** for strict SSL and optimized edge delivery.

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.

Rhinestone SDK | *Account Abstraction, ERC-7579*
- Contributor in the ERC-7579 based moduleSDK for **Account Abstraction**, enabling modular smart accounts.