

# Aryan Kaul

202-740-0833 | [aryan.kaul@columbia.edu](mailto:aryan.kaul@columbia.edu) | [linkedin/aryankaul](https://www.linkedin.com/in/aryankaul) | [akaul02.github.io](https://github.com/akaul02) | [medium/@kaularyan33](https://medium.com/@kaularyan33)

## EDUCATION

### Columbia University

New York, NY

*Master of Science, Computer Science*

*May 2027*

- Exploring agentic productivity tools and human-AI trust in the Computational Design Lab (Dr. [Lydia Chilton](#))
- Advised research with Dr. [Zhuo Zhang](#): VLM-assisted Android GUI testing to identify risky or deceptive UI flows.

### University of Maryland

College Park, MD

*Bachelor of Science, Computer Science (GPA: 3.8/4.0)*

*May 2023*

- Minor in Business Analytics, Robert H. Smith School of Business
- Dean's List, all semesters
- Teaching Assistant: CS 250 (Discrete Structures); led sessions for 40+ students and supported course tooling.

## EXPERIENCE

### Software Engineer, Mobile Platforms

December 2023 – January 2026

*Amazon Inc*

*Seattle, WA*

- Modernized Kindle's Android and Fire Tablet platform (1M+ LOC) using MVVM architecture with Kotlin and Jetpack Compose, to increase engagement on large-form-factor devices by 2% for over 10 million readers.
- Spearheaded app stability efforts, resolving 25+ production crashes/ANRs, and triaging 200+ issues via stacktrace analysis. Instrumented, and monitored key client/server SLIs (e.g., book open latency) via AWS CloudWatch.
- Assisted in building and scaling a cross-platform design system for Kindle's mobile apps. Contributed 10+ accessible components and tokens for color, typography, and spacing. Used AI-assisted workflows to reduce integration time, accelerate rollout of new features, cut design drift by 70%, and save 100+ engineering weeks.
- Increased CI/CD build pipeline reliability, exceeding internal SLOs through Gradle/JDK optimizations, improved dependency management, and tooling improvements (Spotbugs, Dokka) in a 50+ developer org.
- Championed accessibility, advising on semantics, focus, and contrast in early Figma reviews. Resolved 90 tickets, added integration tests, and reviewed 200+ PRs to ensure ARIA parity and compliance beyond WCAG 2.2 AA.

### Software Engineer, Full-stack

July 2023 – November 2023

*Programmers.io*

*Remote*

- Developed 8 key features in a custom ASP.NET Core MVC web application, including folder management, audit tracking fields, and robust CRUD operations across 4 pages, reducing negative customer reviews by 40%.
- Reduced project costs by 10% by removing 3P library reliance. Implemented Authentication roles using ASP.NET Identity. Enhanced data visualizations with 5 interactive React/Chart.js charts for real-time system data.

### Engineering Intern, Infrastructure Solutions Group

May 2021 – Sep 2021

*Dell Technologies*

*Hopkinton, MA*

- Enhanced visibility by aggregating telemetry from over 700 programs across seven business units, surfacing metrics for executive quarterly planning, risk, and OKR alignment, reporting to [James Haager](#) (Chief of Staff, AMD).
- Partnered with more than 40 stakeholders to drive a cross-portfolio initiative by integrating live Jira data into Confluence using Atlassian APIs and query language, enabling dashboards with real-time status reporting.

## LEADERSHIP

### Global Accessibility Awareness Month (GAAM) Conference, *Speaker*

*May 2025*

- Presented to 60+ people, sharing gradual migration strategies for large-scale legacy platforms adopting newer frameworks, and lessons learned building design systems to scale accessibility and mitigate high-severity issues.

### Directed Reading Program (DRP) Conference, *Speaker*

*May 2021*

- Presented advanced topology research on Brouwer's Fixed Point Theorem, investigating continuous functions in a graduate-level domain utilizing R for data analysis and LaTeX, demonstrating analytical problem-solving.

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, Swift, Python, SQL, JavaScript

**Frameworks:** ASP .NET, React, JUnit 5, TestNG, Selenium, Roboelectric, Jetpack Compose, Material Design

**Developer Tools:** Git, Claude, Amazon Q, Docker, Firebase, Jenkins, Gradle, Sublime, Visual Studio, IntelliJ

**Cloud Platform:** Amazon Web Services (AWS) - EC2, S3, CloudWatch, IAM, Google Cloud Platform (GCP)