

Aryan Kaul

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EDUCATION

Columbia University

Master of Science, Computer Science

New York, NY

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

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

College Park, MD

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)