

# Barsha Chaudhary

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## EDUCATION

### Howard University

Expected Graduation: December 2024

Bachelor of Science in Computer Science (GPA: 3.84 / 4.00)

Washington, DC

- **Relevant Coursework:** (Data Structures and Algorithms, Software Engineering and Product Management) [Google Tech Exchange Program], Android Development, Web Development, Operating Systems, Linear Algebra w/Computational Applications, Probability and Statistics, Computer Networking and Database Management Systems.

## TECHNICAL SKILLS

**Languages:** Python, Kotlin, Java, C/C++, Swift, JavaScript, HTML/CSS, Swift, MySQL

**Developer Tools:** React.js, Django, Flask, Android Studio, Xcode, Back4App, MongoDB, Version Control (Git, GitLab, Mercurial), Bazel, Selenium, REST APIs

## EXPERIENCE

### Google

May 2024 – Aug 2024

Software Engineering Intern - Gmail Web EngProd

Seattle, WA

- Built an automated migration tool from the ground up to enhance and expedite the manual test migration process.
- Designed and implemented a deterministic approach using Java to automate the translation of a UI scripting language into Java, supported by rigorous testing.
- The tool is capable of handling 80% of test migration by streamlining file handling and automating the generation of translated test files, ensuring the translated test files maintained consistent testing behavior.

### Google

May 2023 – Aug 2023

STEP Intern - Drive Restore

Los Angeles, CA

- Developed a comprehensive monitoring dashboard for the Google Drive Restore team, enabling real-time visualization of server states, error identification, and process latency assessment.
- Utilized Kotlin, SQL, and Java to collect and store data and creation of dashboard from scratch, which helped the team to deeply understand the overall internal state of server.
- Collaborated closely with an intern teammate throughout design, implementation and thorough testing.

### Meta

May 2022 – Aug 2022

Meta University Engineering Intern - Android Health Efficiency

Seattle, WA

- Collaborated with Meta engineers to develop an Android app for buying and selling used books with messaging features similar to Facebook Marketplace. ([ThriftBooks](#))
- Utilized APIs like Google Books and Google Maps, Back4App for Database, Firebase SDK and external libraries during app development to enhance app functionalities and ensure better user experience.
- Created clone applications in Java during Codepath sessions, including [Flixster](#), [Instagram](#), and [Twitter](#).

## PROJECTS

### BisonBot - AI powered ChatBot | *Open AI, React*

- Developed a full-stack AI chatbot with Retrieval-Augmented Generation using OpenAI, Lateral AI API, ChromaDB, WebSocket, and ChainLit to chat about anything related to Howard University. [BisonBot](#)

### Beats Mobile App [First Place Winner for Hackathon] | *Generative AI - Gemini, ReactNative*

- Developed a full-stack mobile app that creates music playlists based on user prompts, utilizing Gemini, Google Search API, and YouTube API to enhance functionality and user experience, allowing users to groove to the music. [Beats](#)

### International Friends | *SwiftUI*

- Developed an iOS social app using Swift and Back4App, to connect international students on college campuses by providing a centralized platform for interaction, support, and cultural exchange. ([InternationalFriends](#))

## TEACHING/LEADERSHIP

### National Education Equity Lab

Aug 2021 – Present

Teaching Fellow - Howard University

Washington, DC

- Teach College Algebra to over 25 students as a Teaching Fellow in collaboration with Khan Academy, and provide math tutoring for Calculus I, Precalculus, Algebra I, and Algebra II at Howard University.

### Goldman Sachs Market Madness HBCU Possibilities

Jan, 2022 - Mar, 2022

Goldman Sachs Scholar

Remote

- Led a team of five in a finance and marketing case study, presenting a strategic solution for healthy and affordable daily drinks and conducting an effective analysis of their market potential.

## AWARDS

- First Place Winner, Google HBCU Hackathon 2024
- Google Capacity Scholarship 2022, Google Scholarship Fund 2022
- Goldman Sachs Market Madness: HBCU Possibilities Program Scholar 2022