Huzaifa Afzal

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EDUCATION

CUNY Baruch College   **Expected Graduation: May 2026**

- B.S. in Computer Science / Minor in Mathematics
- Cumulative GPA: 3.95/4.0
- Related Coursework: Data Structures & Algorithms, Object-Oriented Programming, Statistics I

PROFESSIONAL EXPERIENCE

Virtue Vanguard   **Apr 2023 – Present**
Co-Founder / Head of Front-End Development   Remote

- Created a Mobile App for pornography addiction prevention via real-time monitoring, illicit content detection, and a community of like-minded users.
- Led the development of a user-friendly UI/UX using Figma and React Native from scratch.
- Assisted in developing a secure backend, database, and user authentication using Google Firebase and Google Cloud Firestore.
- Started the integration process of Microsoft's Image Detection API for content detection as an ongoing project.
- Collaborated with professionals in the AI field for feedback and guidance.

Halal Food Standards Alliance of America   **March 2023 – Present**
Head of Maps Operations   Oakland, CA

- Produced high-quality, detailed maps on Google & Apple maps of 13 states, highlighting Halal-certified restaurants and businesses to assist consumers in locating suitable dining options.
- Worked closely with the agency's Operations team to design visually appealing, user-friendly maps that were distributed to 5000+ users through various channels, including websites, mobile applications, and social media platforms.
- Implemented a system for real-time restaurant updates, reducing inaccuracies and ensuring that users always had access to the latest information.

CUNY Directed Reading Program   **January 2024 – May 2024**
Undergraduate Fellow   New York, NY

- Topic: Discrete Probability and Stochastic Processes
- Engaged in weekly meetings with a graduate student, discussing selected readings and delving into the intricacies of stochastic processes.
- Actively participated in mathematics related events and collaborated with fellow CS & Math students within the CUNY system.
- Investigated the bullet process, a random process involving fired bullets along the x-axis, with a particular focus on survival probabilities and computer simulations.

PROJECTS

Rational Numbers Solution

- Created a user-defined class in C++ to handle rational numbers to eliminate imprecision when converting to binary.
- Included methods for Math operations such as addition, subtraction, multiplication, and division, as well as solving inequalities, ensuring the results are always represented as simplified fractions.

Test Generator

- Create a program that automatically reads test questions from .txt files, and creates from them a test that can be taken and automatically graded.
- Handled all types of questions such as: multiple choice, short answers, and fill-in-the-blanks.

Wild Rides

- Developed a serverless web application on AWS that allows users to request rides, wherever they are on the map.
- Integrated AWS Amplify, AWS API Gateway, AWS Lambda, HTML, and CSS to lower response time.

SKILLS

- **Skills:** Python, C/C++, MS Excel/Numbers/Sheets, AWS, Figma, Firebase, Flutter, JavaScript, JIRA, React Native, UI/UX Design, Android SDK
- **Languages:** English, Arabic, Urdu