

# Ayaan Durani

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## EDUCATION

### University of Houston

Bachelor of Science, Computer Science

Houston, TX

Expected - May 2026

GPA: 3.8

**Relevant Coursework:** Data Structures and Programming, OOP, Data Structures and Algorithms, Database Systems, Linear Algebra

## TECHNICAL EXPERIENCE

**Programming Languages:** C++, Java, Python, HTML, CSS, JavaScript, VBA, SQL

**Frameworks:** React, Angular, Django, Next.js, Bootstrap

**Technologies:** Oracle, Firebase, DynamoDB, MongoDB, PostgreSQL, VSCode, Git, GitHub, Cursor, SQLite,

## PROFESSIONAL EXPERIENCE

### HeadStarter AI

Long Island City, NY

Software Engineering Fellow

July 2024 – September 2024

- Engineered machine learning models, enhancing accuracy by 30% with advanced algorithms.
- Revamped technical skills and industry knowledge through 15+ workshops on AI and data science.
- Optimized data manipulation with Python and SQL, increasing processing efficiency by 25%.

### Mobalytics

Santa Monica, CA

Gaming Market Research & Analytics Extern

February 2024 – April 2024

- Performed market research and data analysis, leading to a 15% increase in user engagement.
- Applied analytical tools to model trends, improving marketing effectiveness by 20%.
- Integrated data-driven insights, contributing to a 10% boost in product development efficiency

### Safety Gear Pro

Sugar Land, TX

Data Analyst Intern

June 2023 – August 2023

- Designed complex Excel spreadsheets with VBA scripting, cutting manual errors by 30%.
- Optimized algorithms, enhancing processing speed by 40% and improving data accuracy.
- Integrated SQL for database management, increasing data retrieval efficiency by 25% and expanding data handling capacity by 20%.

## PROJECT EXPERIENCE

### Tech News Aggregator Discord Bot

January 2025 – January 2025

(JavaScript, Node.js, Discord.js, SQLite, Node-cron, VSCode, Git, News.API)

- Developed a Discord bot using Node.js, JavaScript, Axios, and the News API to fetch and deliver real-time tech news, reaching 200+ users across 5 servers, and processing API requests regularly to ensure up-to-date content.
- Enhanced user interaction and engagement by implementing features to customize news preferences, such as topics and channels, increasing server participation by 40% through personalized content delivery.

### AI Chatbot for Data Structures and Algorithms Assistance

August 2024 – August 2024

(JavaScript, React, Material UI, Firebase, REST API)

- Developed an AI chatbot using React and Firebase to assist users with Data Structures and Algorithms, featuring real-time chat functionality and Google authentication.
- Implemented dynamic message handling, chat history saving/loading, and REST API integration to generate personalized responses.
- Enhanced user interaction by designing a responsive chat interface with Material UI, providing seamless navigation and accessibility.

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

### Boulevard | Fellow

Washington, D.C. | October 2024 - Present

- Participated in Boulevard's Career Accelerator Program, gaining exposure to cutting-edge technology and industry tools, collaborating on technical projects, and refining problem-solving and software development skills.
- Engaged in mentorship and professional development sessions, working on technical challenges, enhancing coding proficiency, and learning agile methodologies in a team environment, while building a strong network within the tech industry.

### Ismaili Religious Center | Volunteer Resource and Community Management

Houston, TX | August 2015 - Present

- Mentored and guided youths aged 8-18, enhancing their community service involvement.
- Coordinated and managed volunteer activities, fostering teamwork and achieving impactful community service projects that benefited over 500 individuals annually.

**Affiliations:** CougarCS, SASE, CodeCoogs, IMSA, Ismaili VRM