

FAIZAH NAQVI

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EDUCATION

Brown University, Sc.B in Computer Science, A.B in International Relations

GPA: 3.92/4.0

Providence, RI
Expected graduation 2026

Relevant coursework: Data Structures and Algorithms, Data Science, Software Engineering, Computer Systems, Object-Oriented Programming, Discrete Structures and Probability, Linear Algebra, Statistical Inference I, Multivariable Calculus.

RESEARCH & PROJECTS

American Community Survey (ACS) Data Connector

Mar. 2024

- Designed a web app to display API calls to ACS data. Integrated Firebase for authentication and prioritized accessibility via keyboard shortcuts and screen reader compatibility.

Thread-Safe Database

Dec. 2023

- Built a multi-threaded client server in C++ to handle multiple concurrent users over a network, implementing search, addition, and deletion capabilities.

Mock C Shell

Oct. 2023

- Developed a Unix-like shell in C++, implementing core functionalities such as command parsing, process execution, I/O redirection, and pipeline operations.

AI Robotics Ethics Society @ Brown

Sep. 2022 – Present

Co-President

- Developed the AI Ethics tool, which uses algorithmic impact assessment to guide software engineers to incorporate ethics inside AI system development. Collaborated with 2 postgraduate researchers in Pontifical Catholic University, Brazil.

Travel Planner

Apr. 2023

- Built a travel planner in Python using the breadth-first search, Dijkstra's, and depth-first search algorithms, efficiently finding the fastest, cheapest, and direct routes.

Page-Rank Search

Apr. 2023

- Implemented page-rank logic in Python to efficiently search and rank custom documents and a querier to look through the ranked pages.

Decision Trees

Mar. 2023

- Built a tree-based machine learning algorithm in Python to recursively learn patterns and split on the most predictive features.

PROFESSIONAL EXPERIENCE

Brown University Department of Computer Science

May 2023 – Present

Undergraduate Teaching Assistant

- Perform code reviews, hold technical and conceptual office hours, and grade projects.
- Research, craft and deliver biweekly mini-lectures on socially responsible computing under the guidance of Prof. Van Dam.
- Hold weekly lab for ~20 students, teach essential object-oriented programming, data structure, and algorithm skills.

Ashoka

May 2023 – Aug. 2023

Data Analytics Intern

- Used STATA to conduct qualitative and quantitative analysis on surveys from executive leaders of non-profit organizations. Identified, complied, and tracked User Feedback KPIs for the company's annual investor report.

Brown University Residential Life

Aug. 2023 - Present

Community Coordinator

- Serve as a residential leader for ~30 residents, planning bi-semester community learning events, mediating roommate conflicts, advocate for improved residential environments.

IgniteCS

Sep. 2022 – Jan. 2023

Tutor

- Mentor local elementary school students in Scratch, algorithms, and computer science with weekly coding activities and projects.

SKILLS & INTERESTS

Programming Languages: Proficient Java and Python, intermediate C++, SQL, HTML, CSS, React, Javascript.

Languages: Intermediate-High Chinese (ACTFL certified). Novice-High Arabic (ACTFL certified). Conversational Urdu.

Tools & Frameworks: Git, Docker, Linux, VSCode, IntelliJ, markdown, JUnit, PyTest, Playwright.

Interests: Avid mystery reader, hobbyist baker, amateur embroiderer.