# FAIZAH NAQVI

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## EDUCATION

**Brown University**, *A.B in Computer Science*                                      Providence, RI
**GPA:** 3.92/4.0                                                    Expected graduation 2026
**Relevant coursework**: Data Structures and Algorithms, Object-Oriented Programming, Computer Systems, Linear Algebra, Statistical Inference I, Multivariable Calculus.

## SKILLS

**Programming Languages:** Advanced Java and Python, intermediate C++ and ASM.
**Languages:** Intermediate-High Chinese (ACTFL certified). Novice-High proficiency in Arabic (ACTFL certified). Conversational Urdu.
**Tools & Frameworks:** Git, Docker, Linux, JUnit, PyTest, VSCode, IntelliJ

## COMPUTING EXPERIENCE

**Brown University Department of Computer Science**                      May 2023 – Present
*Undergraduate Teaching Assistant*
- Hold weekly lab for ~20 students, teach essential object-oriented programming, data structure, and algorithm skills. Perform code reviews and grade projects.
- Craft and deliver biweekly mini-lectures on socially responsible computing.

**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.

**AI Robotics Ethics Society @ Brown**                                Sep. 2022 – Present
*Co-President*
- Work with 2 postgraduate researchers in Pontifical Catholic University, Brazil to develop the AI Ethics tool. The tool uses algorithmic impact assessment to guide software engineers to incorporate ethics inside AI system development.

**IgniteCS**                                                        Sep. 2022 – Jan. 2023
*Tutor*
- Mentor local elementary school students in Scratch, algorithms, and computer science with weekly coding activities and projects.

## PROJECTS

**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.

**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.

## COMMUNITY ENGAGEMENT

**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.

## AWARDS

- National Merit Commended Scholar
- AP Scholar with Distinction
- Stanford China Scholar
- NSLI-Y VSI China & Morocco Scholarship Recipient