

# FAIZAH NAQVI



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ffnaqvi.github.io

## EDUCATION

**Brown University, A.B in Computer Science**

GPA: 3.9/4.0

Providence, RI

Expected graduation 2026

**Relevant coursework:** Introduction to Object-Oriented Programming, Program Design with Data Structures and Algorithms, Linear Algebra, Statistical Inference I, Multivariable Calculus, Introduction to Computer Systems

## SKILLS

**Programming Languages:** Advanced Java and Python, fundamental C++

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

## PROJECTS

### Travel Planner

- 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.

Apr. 2023

### Page-Rank Search

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

Apr. 2023

### Decision Trees

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

Mar. 2023

### Pac-Man

- Mimicked the original Pac-Man using JavaFX, creating a breadth-first search algorithm, different game modes, and correlating key input with Pac-Man movement.

Dec. 2022

## COMPUTING EXPERTISE

### Brown University Department of Computer Science

#### Undergraduate Teaching Assistant

- Hold weekly lab for ~20 students, teach essential object-oriented programming skills, perform code reviews, and grade projects.
- Craft and deliver biweekly mini-lectures on socially responsible computing.

May 2023 - Present

### AI Robotics Ethics Society @ Brown

#### Executive Board

- 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.

Sep. 2022 - Present

### IgniteCS

#### Tutor

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

Sep. 2022 - Jan. 2023

## COMMUNITY ENGAGEMENT

### Brown University Residential Life

#### Community Coordinator

- Serve as a residential leader for ~30 residents, planning bi-semester community learning events, mediating roommate conflicts, //something to do with advocacy v consultation.

Aug. 2023 - Present

### Ashoka

#### 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.

May 2023 - Aug. 2023

### Rhode Island Coalition to End Homelessness

#### SOAR Intern

- Assist the Rhode Island Coalition to End Homeless with filing social security applications for those at risk of homelessness.

Sep. 2022 - Nov. 2022

## AWARDS

- National Merit Commended Scholar
- AP Scholar with Distinction

- NSLI-Y VSI Morocco Scholarship Recipient
- NSLI-Y VSI China Scholarship Recipient