

FAIZAH NAQVI



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<https://ffnaqvi.github.io/>

EDUCATION

Brown University, Sc.B in Computer Science

GPA: 3.94/4.0

Providence, RI

Expected graduation 2026

Relevant coursework: Computer Networks, 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

Consolidated Edison

May 2024 – Aug. 2024

Enterprise Architecture Intern

- Visualized internal processes within Enterprise Architecture and identified redundancies, presenting findings to supervisors, which streamlined the technology approval process.
- Conducted research and created documentation for corporate data center development, contributing to the establishment of company-wide data center build standards.
- Developed internal guidelines on mitigating security vulnerabilities through secure coding practices, resulting in the creation of comprehensive training modules and resources.

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

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

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, Visio, PowerBI.

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