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, VSCode, IntelliJ, JUnit, PyTest.

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