FAIZAH NAQVI

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EDUCATION

Brown University, *Sc.B in Computer Science*   Providence, RI
GPA: 3.94/4.0   *Expected graduation* 2026
Relevant coursework: Software Engineering, Computational Linguistics, Computer Networks, Data Structures and Algorithms, Data Science, Computer Systems, Object-Oriented Programming, Structures and Probability, Linear Algebra, Statistical Inference.

RESEARCH & PROJECTS

AI Robotics Ethics Society @ Brown | *Python*   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.

Mock Internet Radio | *Go*   Sep. 2024
- Developed a mock internet radio in Go, handling multi-threaded TCP connections to a client and streaming UDP data over correlated client listeners from a server.

Redlining Maps | *Typescript, React, Java*   Apr. 2024
- Developed full stack web mapping application overlaying redlining data with user authentication, dynamic pin storage, and data management using Firebase.

American Community Survey (ACS) Data Connector | *Typescript, React, Java*   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 | *C*   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 | *C*   Oct. 2023
- Developed a Unix-like shell in C, implementing core functionalities such as command parsing, process execution, I/O redirection, and pipeline operations.

Page-Rank Search | *Python*   Apr. 2023
- Implemented page-rank logic in Python to efficiently search and rank custom documents and a querier to look through the ranked pages.

PROFESSIONAL EXPERIENCE

Consolidated Edison | *New York, NY*   May 2024 – Aug. 2024
Enterprise Architecture Intern
- Visualized internal processes within Enterprise Architecture and identified redundancies, streamlining the technology approval process.
- Conducted research and created documentation for corporate data center development, contributing to company-wide data center build standards.
- Developed internal guidelines on mitigating security vulnerabilities through secure coding practices.

Brown University Department of Computer Science | *Providence, RI*   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 | *Remote*   May 2023 – Aug. 2023
Data Analytics Intern
- Conduct qualitative and quantitative analysis using STATA on surveys from executive leaders of non-profit organizations. Identified, complied, and tracked User Feedback KPIs for the company's annual investor report.

SKILLS & INTERESTS

Programming Languages: C, Go, x86 ASM, Java, Python, SQL, TypeScript, React, HTML/CSS.
Languages: Intermediate-High Chinese (ACTFL certified). Novice-High Arabic (ACTFL certified). Conversational Urdu.
Tools & Frameworks: Git, Docker, Pandas, NumPy, Terraform, Wireshark, Linux, VSCode, IntelliJ, Microsoft 365.
Interests: Scenic hiking, pastry baking, embroidery, mystery novels.