

FAIZAH NAQVI



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

EDUCATION

Brown University

Bachelor & Master of Science in Computer Science | **GPA:** 3.95/4.0

Providence, RI
Expected graduation 2026

Relevant coursework: Computer Systems, High Performance Network Systems, Database Management, Deep Learning, Software Engineering, Systems Security, Computational Linguistics, Data Science.

SKILLS & INTERESTS

Programming Languages: Python, Go, Rust, C++, C, Java, Typescript, HTML/CSS, React, SQL.

Tools & Frameworks: Linux, Git, Docker, Wireshark, gNMIc, OpenConfig, Pandas, NumPy, Seaborn, TensorFlow, PyTorch, Scikit-learn.

Certifications: JCNIA-Junos

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

PROFESSIONAL EXPERIENCE

Juniper Networks | Sunnyvale, CA

May 2025 – Aug. 2025

Test Engineering Intern

- Spearheaded validation of Juniper's software for industry compliance (gNMI and OpenConfig) across ~7,000 features in multiple Junos releases.
- Built and tested virtual router topologies, uncovering and reporting bugs that impacted over 100 features across software releases for Juniper's top-tier clients.
- Actively debugged and enhanced Juniper's internal automation tool for testing, boosting test reliability and expanding automated coverage across releases.

Consolidated Edison | New York, NY

May 2024 – Aug. 2024

Enterprise Architecture Intern

- Designed a company-wide framework to mitigate security vulnerabilities throughout the software development life cycle, focusing on the OWASP Top Ten.
- Researched, evaluated, and recommended hardware aligned with ConEd data center specifications, standardizing infrastructure across the company.

Brown University Department of Computer Science | Providence, RI

May 2023 – Present

Undergraduate Teaching Assistant

- Work closely with ~20 colleagues to perform code reviews, hold technical and conceptual office hours, and grade projects on core systems and algorithm topics.
- Collaborated directly with Prof. Van Dam to research, craft and deliver biweekly mini-lectures on socially responsible computing to ~400 students.

RESEARCH & PROJECTS

Low-Latency Network System | Rust

Mar. 2025

- Implemented and analyzed a high-performance TCP client-server application with I/O ring optimizations for open-loop request generation, minimizing latency and analyzing the system throughput.

Virtual Internet Protocol | Go

Nov. 2024

- Developed a custom Virtual IP and TCP Network using UDP sockets, incorporating RIP routing protocol with poison reverse and split horizon to enhance network efficiency.
- Optimized packet transmission through sliding window mechanisms, retransmissions, and zero-window probing.

Redlining Maps | Typescript, React, Java

Apr. 2024

- Co-developed a full stack web mapping application overlaying redlining data with user authentication, dynamic pin storage, and cookie management using Firebase

American Community Survey (ACS) Data Connector | Typescript, React, Java

Apr. 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.

AI Robotics Ethics Society @ Brown | Python

Sep. 2022 - Present

- Collaborated with postdoc researchers from Pontifical Catholic University, Brazil to develop a framework that evaluates model risk for software developers.
- Led team of five undergraduates to conduct a study measuring the impact of technology ethics education within the Brown University Computer Science Department.