

FAIZAH NAQVI



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

EDUCATION

Brown University

Bachelor & Master of Science in Computer Science | **GPA:** 3.96/4.0

Relevant coursework: Computer Systems, High Performance Network Systems, Database Management, Systems Security, Applied Cryptography, Blockchains & Cryptocurrency, Deep Learning/AI.

Providence, RI

Expected graduation May 2026

SKILLS & INTERESTS

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

Tools & Frameworks: GitLab, PowerBI, React, Docker, gRPC, Wireshark, Cursor (AI).

Certifications: AWS Cloud Practitioner, JCNIA-Junos

PROFESSIONAL EXPERIENCE

Juniper Networks | *Sunnyvale, CA*

Software Engineer Intern (QA Engineering)

May 2025 – Aug. 2025

- Led large-scale validation of Junos OS against industry standards (gNMI, OpenConfig), executing test coverage across ~7,000 features and multiple releases.
- Built and tested virtual router topologies to identify, reproduce, and document defects; filed high-quality bug reports and collaborated with development teams to resolve issues affecting 100+ features for enterprise customers.
- Designed and implemented containerized Go applications for Juniper routers.

Consolidated Edison | *New York, NY*

Enterprise Architecture Intern

May 2024 – Aug. 2024

- 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

Brown University Systems Research Group | *C, Rust, SQL*

Sep. 2025 – Present

- Design and develop a novel interface that translates SQL-like queries into highly optimized, safe programs that run directly on the kernel (eBPF).
- Conduct systems research under Professor Malte Schwarzkopf as part of the Efficient and Trustworthy Operating Systems Group; work with PhD researchers on kernel-level observability.

AI Robotics Ethics Society @ Brown | *Python*

Sep. 2022 – Present

- Co-author of Crossing the Principle–Practice Gap in AI Ethics with Ethical Problem-Solving. Developed 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 Computer Science Department.

SELECTED PROJECTS

Affect-Driven Gesture Reinforcement Model | *Python*

Dec. 2025

- Designed and implemented a human-in-the-loop reinforcement learning pipeline for gesture classification using valence-based feedback as a proxy for human preference; achieved 90.56% accuracy.

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.

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

Apr. 2024

- Built an accessible data visualization web app consuming U.S. Census ACS REST APIs, implementing full keyboard navigation and screen-reader support to meet WCAG accessibility standards.