# FAIZAH NAQVI

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## EDUCATION

**Brown University** — Providence, RI
Bachelor & Master of Science in Computer Science | **GPA:** 3.96/4.0 — *Expected graduation* May 2026
**Relevant coursework**: Computer Systems, High Performance Network Systems, Systems Security, Database Management, Applied Cryptography, Deep Learning/AI.

## SKILLS & INTERESTS

**Programming Languages:** Go, Rust, C++/C, Python, Java, Typescript.
**Tools & Frameworks:** Linux, Git, Docker, TCP/IP, Grafana.
**Certifications:** AWS Cloud Practitioner, JCNIA-Junos

## PROFESSIONAL EXPERIENCE

**Juniper Networks | *Sunnyvale, CA*** — May 2025 – Aug. 2025
*Software Engineer Intern (Test Engineering)*

- Spearheaded validation of Juniper's software for industry compliance (gNMI and OpenConfig) across ~7,000 features in multiple Junos releases.
- Engineered and tested virtual router topologies, tracing distributed system issues to their root cause to resolve bugs impacting over 100 features across multiple Junos releases.
- Designed and implemented containerized Go applications for Juniper routers, including a gRIBI proxy that enhanced reliability of programmable routing pipelines.

**Consolidated Edison | *New York, NY*** — May 2024 – Aug. 2024
*Enterprise Architecture Intern*

- Designed a company-wide SDLC framework to mitigate security vulnerabilities throughout the software development life cycle, focusing on the OWASP Top Ten.
- Assessed application and infrastructure architectures to identify security gaps across APIs and services, recommending remediation strategies aligned with runtime protection and continuous compliance goals.

**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*** — Sep. 2025 – Present

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

**High Performance Microservices | *Rust*** — Apr. 2025

- Diagnosed and resolved performance issues in a distributed microservices architecture, reducing file-database latency by 25% by profiling and minimizing blocking system calls.

**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, eliminating latency and maximizing 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.