

# Mohammad Pervaiz

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## EDUCATION

**Queens College, City University of New York**  
*Bachelors in Computer Science, Minor in Mathematics*

**3.8/4.0 GPA**  
*Expected May 2027*

## TECHNICAL SKILLS

**Languages and Frameworks:** Python, Java, C++, JavaScript, TypeScript, React, Next, Node, Express, FastAPI  
**Tools and Technologies:** Kafka, RabbitMQ, PostgreSQL, Redis, Docker, Linux, Bash, Git, IAM, Grafana, Humio

## EXPERIENCE

### Software Engineering Intern

**Jun. 2025 - Aug. 2025**

*Bloomberg*

*New York, NY*

- Architected and deployed a Kafka-based CDC pipeline processing real-time changes for 20K+ Bloomberg employees from 4 database connectors, replacing fragmented systems with a standardized exactly-once atomic delivery solution supporting durability, auditability, and rollback via Kafka transactions and offset replay.
- Designed a modular, event-driven architecture with in-memory aggregation, data diffing, authoritative database accessors, and IAM-authenticated Kafka topics, greatly improving data reliability, compliance, and visibility.
- Optimized for stability with an hourly batch model, ensuring temporal consistency, complex deduplication, and safe incident recovery via historical replay, with poller data diffing logic executing in ~500 ms per batch.
- Developed a 120+ scenario automated test suite in a Dockerized environment comprising unit, integration, and system tests, including monkey-patched integration tests for near-instant testing, covering business logic and multiple edge cases; achieving 90% code coverage for critical employee data transformation workflows.

### Computer Science Tutor

**Feb. 2025 – Present**

*Queens College*

*New York, NY*

- Tutored students in intro to programming, OOP, discrete math, and DSA, strengthening CS fundamentals, problem-solving abilities, and interview readiness through hands-on guidance and structured learning.

### Software Engineering Intern

**Jan. 2025 – Jan. 2025**

*Morgan Stanley*

*New York, NY*

- Updated a CEV API integration, adding new fields, removing deprecated ones, and implementing schema validation to ensure compatibility, accuracy, and compliance before legacy API decommissioning.
- Developed Python unit tests using MagicMock to simulate API responses and verify integration behavior.

### Software Engineering Intern

**Jun. 2024 – Aug. 2024**

*Dotdash Meredith*

*New York, NY*

- Developed key features for People.com, a site with 15M+ daily views, using XML, SCSS, and JavaScript.
- Integrated a dynamic mini journey carousel into Mantle, Dotdash Meredith's monorepo, greatly cutting development time across 40+ brands while preserving full ad script integrity allowing for seamless integration.
- Designed reusable components for the 2024 Olympics, cutting future event development time for future events.
- Built and presented an AI demo for game generation, supporting a company initiative to boost engagement.

### Software Engineering Intern

**Jun. 2023 – Aug. 2023**

*Globalizing Gender*

*New York, NY*

- Developed a web app for Globalizing Gender, a startup supporting survivors of gender-based violence.
- Lowered Firebase hosting costs by 10% and boosted SEO by 14% by lazy loading and code refinement.
- Conducted QA with Chrome DevTools and Web Vitals, cutting load time and boosting performance by 12%.

## LEADERSHIP AND HONORS

### Code For All President

**Jun. 2025 – Present**

- Leading a 2,000+ member tech club and organizing events including Hack Knight, a biannual hackathon sponsored by Bloomberg, Capital One, and C4 Energy, plus workshops and networking with professionals.

### IAC Fellow

**Jun. 2024 – Aug. 2024**

- An immersive leadership program fostering tech innovation through competitive internships, mentorship, and networking. Successfully secured a \$15K grant for Let's Get Ready, a NYC nonprofit supporting educational programs for underprivileged students, by presenting a funding proposal to the IAC Foundation Board.