

# Mohammad Pervaiz

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## EDUCATION

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**Queens College, City University of New York**

**May 2027**

Bachelor of Arts in Computer Science, Minor in Mathematics

**GPA: 3.73**

**Coursework:** Data Structures, Algorithms, Software Engineering, Database Systems, Theory of Computation

## EXPERIENCE

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**Bloomberg L.P.**

**June 2026 – August 2026**

Incoming Software Engineering Intern

New York, NY

**Bloomberg L.P.**

**June 2025 – August 2025**

Software Engineering Intern

New York, NY

- Deployed a Kafka-based Change Data Capture (CDC) pipeline serving 26K+ employees, replacing inefficient and costly per-team snapshot jobs with a centralized, fault-tolerant, auditable feed for near real-time updates.
- Designed an event-driven architecture publishing standardized database changes to an access-controlled output topic and implemented batch diffing and unification, providing a reliable source for 3+ downstream systems.
- Achieved exactly-once delivery via transactions and idempotent processing, preventing duplicates and data loss.
- Enabled monitoring dashboards and on-call alerts via structured logs and audit trails for poller lag and failures.

**Morgan Stanley**

**January 2025 – January 2025**

Software Engineering Intern

New York, NY

- Updated a Change Execution Validation API tool, adding new fields, removing deprecated ones, and implementing schema validation to ensure compatibility and compliance before legacy API decommissioning.
- Prevented outages by blocking invalid payloads, ensuring complete and valid data for thousands of traders.
- Collaborated with compliance teams and wrote unit tests to validate changes in dev before production rollout.

**Dotdash Meredith**

**June 2024 – August 2024**

Software Engineering Intern

New York, NY

- Developed features for [People.com](https://www.people.com), a site with 8M+ daily visits, using XML, SCSS, and JavaScript.
- Integrated a dynamic mini journey carousel into Dotdash Meredith's monorepo, greatly cutting future development time across 40+ brands while preserving full ad script integrity allowing for seamless integration.
- Reduced development time for future special events by designing reusable components for the 2024 Olympics.
- Built and presented to executives an AI demo for daily games, supporting an initiative to boost engagement.

## SKILLS

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**Languages:** Python, Java, C++, JavaScript, TypeScript, SQL, HTML, XML, CSS/SCSS

**Frameworks:** FastAPI, Express, Node.js, Next.js, React, Tailwind CSS

**Technologies:** Confluent Kafka, PostgreSQL, MongoDB, Redis, Docker, Linux/Bash, Grafana/Humio

## LEADERSHIP

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**Code For All President**

**May 2025 – Present**

- Led a 2,000+ member tech club, organizing workshops and events for students at and beyond Queens College.
- Organized Hack Knight, a 48-hour biannual hackathon with 200+ participants from 40+ colleges, previously sponsored by Bloomberg, Capital One, C4 Energy, Major League Hacking, CodePath, and Queens College.

**IAC Fellow**

**June 2024 – August 2024**

- Selected as 1 of 25 nationwide for a leadership program fostering tech innovation and networking, and secured a \$15K grant for Let's Get Ready, a NYC college-access nonprofit, by presenting to the IAC Foundation Board.