Mohammad Pervaiz

momoperv123@gmail.com | linkedin.com/in/mohammad-pervaiz | github.com/momoperv123

EDUCATION

Queens College, City University of New York   **3.8/4.0 GPA**
Bachelors in Computer Science, Minor in Mathematics   *Expected May 2027*

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, HTML, XML, CSS/SCSS
Frameworks: FastAPI, Express, Node.js, Next.js, React, Tailwind CSS, Bootstrap
Technologies: Kafka, RabbitMQ, PostgreSQL, MongoDB, Redis, Docker, Linux, Bash, Git, IAM, Grafana, Humio

EXPERIENCE

Bloomberg L.P.   **June 2025 - August 2025**
Software Engineering Intern   *New York, NY*

- Developed and deployed a Kafka-based Change Data Capture pipeline serving 20K+ employees, replacing per-team snapshot jobs with a centralized, fault-tolerant feed of consistent, auditable data used by 6+ teams.
- Designed an event-driven architecture publishing standardized database changes to an access-controlled topic.
- Implemented batch processing for diffing and unification, offering a reliable source for downstream systems.
- Achieved exactly-once delivery via transactions and idempotent processing, preventing duplicates and data loss.
- Built a 120+ Docker-based test suite covering business logic and edge-case workflows for production reliability.

Queens College Learning Commons   **February 2025 – Present**
Computer Science Tutor   *New York, NY*

- Tutored students in Introduction to Programming, Object-Oriented Programming, Discrete Mathematics, and Data Structures and Algorithms, strengthening fundamentals and problem-solving through hands-on guidance.
- Led recurring Data Structures and Algorithms and System Design workshops for ˜30 students, creating LeetCode-style problem sets and whiteboard exercises to build interview confidence and practical experience.

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, 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.

LEADERSHIP

Code For All President   **May 2025 – Present**

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

IAC Fellow   **June 2024 – August 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.