Mohammad Pervaiz

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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 (CDC) pipeline serving 20K+ employees, replacing 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 4+ downstream systems.
- Achieved exactly-once delivery via transactions and idempotent processing, preventing duplicates and data loss.
- Enabled structured logging and audit trails; built dashboards and on-call alerts for consumer lag and failures.
- Built a 120+ Docker-based test suite covering CDC business logic and edge cases 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.