Mohammad Pervaiz

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EDUCATION

Queens College, City University of New York **May 2027**
Bachelor's in Computer Science **GPA:** 3.8 / 4.0

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

EXPERIENCE

Bloomberg LP **June 2026 – August 2026**
Software Engineering Intern (Returning) New York, NY

Bloomberg LP **June 2025 – August 2025**
Software Engineering Intern New York, NY
- Built a centralized and scalable Kafka-based CDC pipeline for 26K+ employees, replacing inefficient batch jobs
- Delivered IAM-guarded updates from 5+ upstream services by implementing batching in a distributed system
- Engineered fault-tolerant and reliable updates to 3+ ETL consumers using exactly-once with Kafka transactions
- Secured 100% monitoring coverage for poller errors by adding alerts via dashboards for logging and telemetry
- Developed 150+ automated unit, integration, and system tests within Docker securing ~90% code coverage

Morgan Stanley **December 2024 – January 2025**
Software Engineering Intern New York, NY
- Expanded coverage for 10+ JSON fields in a validation REST API with schema checks before deprecation
- Prevented outages by blocking 100% of invalid payloads, ensuring data integrity for dependent trading systems
- Wrote unit tests for 20+ API endpoints and collaborated with compliance to meet regulatory requirements

People Inc **June 2024 – August 2024**
Software Engineering Intern New York, NY
- Shipped user-facing features for People.com (8M+ daily visits) and Entertainment Weekly (1M+ daily visits)
- Scaled site functionality with 270M+ monthly viewers while ensuring 100% ad revenue integrity via profiling
- Standardized development across 40+ brands by integrating reusable components into People Inc's monorepo

PROJECTS

In-Memory Cache | *Python, Gevent, TCP Sockets, RESP Protocol* GitHub
- Achieved 7.1K ops/sec with 100% success under load, sustaining 6K+ ops/sec with up to 20 concurrent workers
- Optimized request path for 0.26ms avg GET latency and 0.34ms avg SET latency in single-threaded tests
- Implemented RESP over TCP sockets with async networking, supporting GET, SET, TTL, and AOF persistence

LEADERSHIP

Code For All **May 2025 – Present**
President New York, NY
- Led a 2K+ member tech club, organizing workshops and events for students at and beyond Queens College
- Organized Hack Knight, a 48-hour biannual hackathon with 600+ applicants from 50+ colleges nationwide

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Bash
Frameworks: FastAPI, Gevent, Express, Node.js, Next.js, React, Tailwind
Technologies: Confluent Kafka, PostgreSQL, MongoDB, Redis, Docker, Linux, Git, Grafana, Humio