MEKAN AGAHANOV

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EDUCATION

BARUCH COLLEGE, CITY UNIVERSITY OF NEW YORK   **New York, NY**
Bachelor of Science, Expected 2027

- Major: Mathematics Minor: Computer Science
- GPA: 3.91/4.00
- Awards/Honors: Dean's List, Top Up Scholarship Recipient of $40,000
- Competition: International Olympiad in Informatics (2023) - Honorable Mention, National Olympiad in Informatics in Turkmenistan – 2x Bronze Medal (2022, 2023)

EXPERIENCE

AMAZON   **New York, NY**
Software Development Engineering Intern   **May 2025 – Present**

- Engineered a scalable data ingestion pipeline using AWS Kinesis and S3 that assembled and processed over 1000 ad impression events per day
- Built a real-time, AI-powered data validation engine using Kafka and PyTorch, which analyzed streaming data to detect anomalies and ensured 90+% data integrity for downstream advertising analytics

THE NEW YORK POPS   **New York, NY**
Development and Organization Intern   **Mar 2025 – May 2025**

- Coordinated and assisted financial administration for 2 major fundraising events, reporting on event revenue of $1.2M
- Prepared detailed financial reports on $1.8M in seasonal fundraising campaigns for board member presentations

NATIONAL SCIENCE FOUNDATION   **Alexandria, VA**
Physics Researcher Intern   **May 2024 – Aug 2024**

- Researched to explore advancements in electric batteries and engines for EVs, focusing on lithium-ion batteries
- Conducted over 30 virtual simulations using Python, SQL and Simul8, leveraging IEEE research data to identify potential failures in EV batteries and electric motors
- Analyzed and inspected over 50 research papers on EV components; published a research paper with modeled device design methods, particularly for heat-resistant applications in EVs, improving efficiency by 14.4%

NEW YORK INSTITUTE OF TECHNOLOGY   **New York, NY**
Information Technology Intern   **Sep 2023 – May 2024**

- Built New York Tech resources access project in collaboration with the Microsoft systems development team, upgraded system integration, and streamlined digital access for 1000's of students and faculty
- Repaired 100+ operational and software issues for various electronic devices, optimizing performance and user satisfaction

LEADERSHIP & ACTIVITIES

FINANCIAL LEADERSHIP PROGRAM, BARUCH COLLEGE   **New York, NY**
Selected Participant   **Aug 2025 – Present**

- Selected as one of 27 top-performing group of juniors for intensive training on technical, leadership, and professional skills
- Completed weekly assignment which included marker research, case studies, creating pitch books, and excel modeling

50FIVE CAPITAL   **New York, NY**
Derivatives Analyst   **Sep 2024 – Present**

- Collaborated in a team of 14 to manage a multi-asset portfolio with a 30.3% allocation to derivatives
- Generated a 61% return on the derivatives allocation through the strategic execution of protective puts and covered calls

ADDITIONAL INFORMATION

- **Computer Skills:** C++, Python, JavaScript, React.js, SQL, AWS, Salesforce, Microsoft Office
- **Languages**: Russian, Turkmen, Turkish
- **Interests**: Soccer, Competitive/Strategy gaming and programming, Martial arts, Bartending