

Alyssa Meczowska

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EDUCATION

ST. JOHN'S UNIVERSITY, Queens, NY

Expected May 2026

Bachelor of Science, Computer Science

- **GPA:** 4.0
- **Relevant Coursework:** Advanced Data Structures, Database Management Systems, Software Design Methods
- **Clubs:** Association for Computing Machinery (ACM), Badminton Club

STUYVESANT HIGH SCHOOL, New York, NY

Graduated June 2021

- **GPA:** 3.3
- Japanese National Honor Society
- Sophie Davis School of Biomedical Education's Health Professions Recruitment and Exposure Program (HPREP)

EXPERIENCE

BUKHARI LAB, Queens, NY

April 2025–Present

Machine Learning Researcher

- Utilize MIMIC-IV with fine-tuned BioBERT and spaCy to extract physician burnout signals
- Build deep learning models such as LSTMs and transformers for burnout classification and temporal analysis
- Work on deploying a SMART on FHIR app for real-time EHR alerts on clinician burnout

VÁZQUEZ GROUP, Queens, NY

March 2025–Present

Cheminformatics and Machine Learning Researcher

- Support clustering analysis to identify meaningful molecular groupings
- Apply machine learning and large language models to cheminformatics
- Use Vim and the terminal for Python coding, data analysis, and workflow automation

UNIVERSITY LEARNING COMMONS, Queens, NY

October 2024–May 2025

Computer Science and Math Tutor

- "Tutor of the Month" (May 2025) recognized for exceptional initiative, positive rapport-building, and measurable contributions to student success
- Met with students individually in-person and virtually to provide academic assistance
- Established relationships with students and serve as a resource for campus support

STAR LEARNING CENTER, New York, NY

October 2019–June 2020

Volunteer Geometry and Biology Tutor

- Tutored high school students one-on-one in person and virtually during COVID
- Prepared students for tests by identifying and improving development areas
- Created practice problems based on specific subject matter

LEADERSHIP

ASSOCIATION FOR COMPUTING MACHINERY (ACM) STUDENT CHAPTER, Queens, NY

May 2025–Present

Social Media Coordinator

- Elected to the university's ACM Student Chapter Executive Board to oversee social media strategy
- Manage and create promotional content to increase engagement and visibility of student events
- Collaborate with fellow board members to support club initiatives, technical workshops, and recruitment

STUDENT TECHNOLOGY GOVERNANCE, Queens, NY

October 2024–Present

Group Member

- Advocate for technology integration in student services and academic programs
- Collaborate with faculty and administration to evaluate technology on campus

ADDITIONAL SKILLS

- **Programming Languages:** Java, Python, JavaScript/TypeScript, SQL, HTML & CSS
- **Frameworks & Libraries:** React, TensorFlow, PyTorch, scikit-learn, BioBERT, spaCy
- **Tools & Platforms:** Git/GitHub, Linux/Vim, Jupyter Notebook, MySQL Workbench, Psi4, MIMIC-IV