MICHAEL LEUNG

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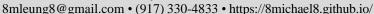
::*Technical Skills:*::
Python, Java, C, C#, HTML, CSS, JavaScript, React, Linux

EDUCATION |

University at Buffalo (SUNY) • Buffalo NY   Anticipated Graduation: **December 2025** (7 Semesters)
Bachelor of Science in Computer Science, GPA: 3.81
- Dean's List (all semesters) and Recipient of the "Pride of NY Scholarship".
- *Relevant Coursework*: Software Engineering development process, Software Quality in Practice, Web development, Data Structures, Algorithms, Assembly Language Programming, Discrete Structures, Linear Algebra, Statistics, Probability
- *Spring 2025:* Artificial Intelligence, Machine Learning, Software Project Management.

WORK EXPERIENCE |

University at Buffalo • *Department of Computer Science* • Buffalo NY   **August 2024 - Present**
Undergraduate Teacher's Assistant – Software Quality in Practice
- Supporting a class of over 70 students, delivering comprehensive instructions on essential debugging tools such as GNU GDB, gprof, gcov, Callgrind, and Git.
- Guiding students in debugging and enhancing their code within team-based settings, ensuring they gained practical experience in software quality techniques.
- Conducting lab sessions twice a week for smaller groups of 20+ students, providing assistance and encouraging an interactive learning environment.

RESEARCH EXPERIENCE |

University at Buffalo • Buffalo NY   **August 2024 - Present**
Undergraduate Research Assistant
- Assisting on GraSPI, a graph-based structure property identifier software that computes a library of descriptors for segmented microstructures and organic solar cells performance.
- Translating the current software implementation from C/C++ to python-native packages like boost.Python.
- Collaborating in a team of 5 to identify optimal strategies for translation, testing, and implementation.

TECHNICAL PROJECTS | [WEBSITE](#) | [GitHub](#)

Product Price Tracker
- Scraped macys.com to track products from over 25 private brands and store their prices in MongoDB, utilizing Python Flask for the backend API and JavaScript for a responsive frontend.

Sudoku Solver
- Developed a Sudoku solver in Python which allows users to engage in various puzzles, offering the ability to reset and quickly solve them using the backtracking algorithm.

Tournament Organizer
- Developed a C# application enabling users to create and manage tournaments, including generating brackets and assigning prizes.

TRAINING & CERTIFICATION | [CERTIFICATE](#)

Google Cybersecurity Certificate   **June 2023 – August 2023**
Foundations of Cybersecurity, Manage Security Risks, Networks and Network Security, Linux and SQL, Assets, Threats and Vulnerabilities, Detection and Response.

VOLUNTEER |

Bayside High School • Queens, NY   **Oct 2021 - May 2022**
Math Tutor
Tutored 2+ students weekly in Geometry, Algebra I, and Algebra II and led them to an overall improvement in their grades.