

MICHAEL LEUNG

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::Technical Skills::

Python, Java, C, C#, HTML, CSS, JavaScript, React, Linux, SQL, MongoDB

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: 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 (CSE 306LLB)

- 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 Researcher

- Assisting on GraSPI, a graph-based structure property identifier software that computes a library of descriptors for segmented microstructures and organic solar cells performance, which can be directly used in machine learning.
- Converted GraSPI software from C++/C to Python, evaluating and selecting from 4 different graph-based libraries based on performance and compatibility.
- Collaborating in a team of 5 to identify optimal strategies for translation, testing, and implementation.
- Awarded second place among 80 teams at the University at Buffalo's 13th Bi-annual Computer Science and Engineering Demo Day for innovative project presentation and teamwork; event sponsored by M&T Bank and UB Department of Computer Science.

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.

AlgoRhythm Learner

- Collaborated in a team of 4 to develop a React and Python-based application that visually teaches various algorithms, utilizing agile methodologies during development

Wordle Multiplayer

- Collaborated in a team of 4 to develop a Python and Docker-based application, utilizing MongoDB, to transform Wordle into a multiplayer experience.

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.