Michael Wolf-Sonkin

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science — Expected Graduation: May 2023
Master of Science, **Computer Science**

Stony Brook University, College of Engineering and Applied Sciences — August 2018 – May 2021
Bachelor of Science, **Computer Science** — Cumulative GPA: 3.92/4.0
Bachelor of Science, **Applied Mathematics and Statistics**

SKILLS

Software: **Python, C, C++, Java, LabWindows/CVI**
Courses: **Algorithmic Analysis, Computer Graphics, Machine Learning, System Fundamentals, Numerical Analysis, Computational Geometry, Graph Theory, Linear Algebra**

WORK EXPERIENCE

Applied Research Associates, Inc. | Raleigh, NC — Summer 2020
Software Development Intern
- Refined the 3D model export pipeline to view subdivided tunnel facilities on a 3D representation of the earth.

BitWize Corp. | Melville, NY — June 2019 – February 2020
Software Development Contractor
- Developed LabWindows/CVI GUI application to monitor heater and actuator status for onboard deicing systems.

Stony Brook University | Stony Brook, NY — Fall 2019, Fall 2020, Spring 2021
System Fundamentals Teaching Assistant
- Held weekly recitations and office hours to teach general system fundamentals and MIPS Assembly language.

College of Engineering and Applied Sciences Computer Science Tutor
- Help students develop skills in data structures, discrete math, system fundamentals, and algorithmic analysis.

Veeco Instruments, Inc. | Plainview, NY — Summer 2019
Software Development Intern
- Developed software to configure elevators, wafer aligners, and robotic arms in thin film process equipment.

Cox & Company, Inc. | Plainview, NY — Summer 2017, 2018
Software Development Intern
- Created LabWindows/CVI program to verify behavior of fuzzy signals of deicing controller in extreme temperatures.

PERSONAL PROJECTS

Virtual Rubik's Cube Solver and Visualizer – *Python*
- Utilized OpenGL for 3D simulations.
- Implemented Rubik's Cube solving algorithms, specifically CFOP.

FIRST Robotics Competition Dashboard – *Python*
- Streams camera feed from server onboard the robot.
- Identifies, locates, and tracks in-game targets using computer vision for autonomous robot control.

EXTRACURRICULAR ACTIVITIES

Stony Brook University Competitive Programming Team — September 2019 – May 2021
- ICPC Greater NY Regional, 2021 – 3rd Place
- Collaborate with team in weekly practice contests which leverage algorithmic problem solving.

FIRST Robotics Competition, Team 7400 | Melville, NY — June 2018 – Present
Software Development Mentor
- Teach software development in C++ and Python.
- Work with students to develop vision processing software.

ADDITIONAL

Awards – Stony Brook University Dean's List

Interests – Rock Climbing • Rubik's Cubes • Cycling