Michael Wolf-Sonkin

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EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science Expected Graduation: December 2022
Master of Science, **Computer Science** Cumulative GPA: 3.83/4.0

Stony Brook University August 2018 – May 2021
Bachelor of Science, **Computer Science** Cumulative GPA: 3.92/4.0
Bachelor of Science, **Applied Mathematics**

SKILLS

Software: **C, C++, LabWindows/CVI, Python, Java**
Courses: **Computer Graphics, Physically Based Animation, Numerical Analysis, Computational Geometry**

WORK EXPERIENCE

J.G. Smith Associates Inc. | Setauket, NY Summer 2021
Software Development Contractor
- Created LabWindows/CVI test tool for DC-DC converters.

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 application to monitor heater and actuator status for onboard deicing systems.

Stony Brook University Fall 2020, Spring 2021
College of Engineering and Applied Sciences Computer Science Tutor
- Helped students develop skills in data structures, discrete math, system fundamentals, and algorithmic analysis.

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 September 2019 – May 2021
- ICPC Greater NY Regional, 2021 – 3rd Place
- Collaborated 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
- Columbia University Dean's List – All Semesters
- Stony Brook University Dean's List – All Semesters

Interests – Rock Climbing • Rubik's Cubes • Cycling