**Michael Wolf-Sonkin**

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**EDUCATION**

**Columbia University,** Fu Foundation School of Engineering and Applied ScienceExpected Graduation: December 2022

Master of Science, **Computer Science** Cumulative GPA: 3.81/4.0

**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