

# 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: 3.81/4.0

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

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## SKILLS

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

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## 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.

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## 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.

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## 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.

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## ADDITIONAL

**Awards**

- Columbia University Dean's List – All Semesters
- Stony Brook University Dean's List – All Semesters

**Interests** – Rock Climbing • Rubik's Cubes • Cycling