Michael Wolf-Sonkin

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EDUCATION

Stony Brook University Cumulative GPA: 3.97/4.0
Bachelor of Science, **Computer Science** Expected Graduation: May 2021
Bachelor of Science, **Applied Mathematics and Statistics** Credits to Date: 132

SKILLS

Software: **Python, C, C++, Java, LabWindows/CVI**
Courses: **Algorithmic Analysis, Computer Graphics, Machine Learning, System Fundamentals, Natural Language Processing, 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 – Present

- Tied for Top Underclassmen Team – ICPC Greater NY Regional, 2019
- 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

- Dean's List – All Semesters
- American Computer Science League, 2017 – 1st Place in NY
- Saint Joseph College Programming Competition, 2017, 2018 – Tied for 1st Place

Interests – Rock Climbing • Rubik's Cubes • Cycling