Michael Wolf-Sonkin

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EDUCATION

Stony Brook University Cumulative GPA: 3.96/4.0
Bachelor of Science, **Computer Science** Expected Graduation: May 2021
Bachelor of Science, **Applied Mathematics and Statistics** Credits to Date: 104

SKILLS

Software: **Java, C/C++, Python, C#, LabWindows/CVI**

Courses: **System Fundamentals, Analysis of Algorithms, Computer Networks, Computer Vision, Data Structures, Programming Abstractions, Linear Algebra, Graph Theory, Combinatorics, Probability and Statistics**

WORK EXPERIENCE / INTERNSHIPS

BitWize Corp. | Melville, NY June 2019 - Present
Software Development Contractor

- Developed LabWindows/CVI GUI application to monitor heater and actuator status for onboard deicing systems.

Veeco Instruments, Inc. | Plainview, NY Summer 2019
Software Development Intern

- Developed C# software to configure elevators, wafer aligners, and robotic arms in thin film process equipment.
- Created modular installer scripts using NSIS to allow software to be more efficiently deployed.

Cox & Company, Inc. | Plainview, NY Summer 2017, 2018
Software Development Intern

- Created LabWindows/CVI GUI application to convert avionics error codes to a human readable format.
- Developed LabWindows/CVI GUI application to verify behavior of fuzzy output signals of deicing controller unit under extreme temperature settings.

Stony Brook University Fall 2019
System Fundamentals Teaching Assistant

- Held weekly recitations and office hours to teach general system fundamentals and MIPS Assembly language.

PERSONAL PROJECTS

Virtual Rubik's Cube Solver and Visualizer – *Java/Python*

- Developed custom 3D graphics library used to render the Rubik's Cube.
- 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 Competitive Programming Team September 2019 – Present

- Attend weekly lectures on algorithmic problems solving.
- Participate in weekly practice contests to prepare for the International Collegiate Programming Contest

FIRST Robotics Team 7400 | Melville, NY June 2018 – Present
Software Mentor

- Taught software development in C/C++ and Python.
- Worked with students to develop vision processing software

ADDITIONAL

Awards

- Stony Brook University Dean's List – All Semesters
- Stony Brook Competitive Programming Team, 2019 NY Regional – Tied for Top Underclassmen Team
- American Computer Science League – 1st Place in New York
- Saint Joseph College Programming Competition, 2017, 2018 – Tied for 1st Place

Interests – Rock Climbing • Rubik's Cubes • Cycling