Sohavni Amrita Singh
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Education

University of Michigan, Ann Arbor – Computer Science – College of Engineering – *April 2024*

- ENGR 151: Accelerated MATLAB & C++
- MATH 215: Calculus III (use of MATLAB)
- PHYS 140: Mechanics / PHYS 141 Lab (use of Python in Jupyter Notebook)
- Next Semester: EECS 280 (Programming & Intro to Data Structures), EECS 203 (Discrete Mathematics), ENGR 100
- Women in Science and Engineering Learning Community
- Research Assistant at Zhang Lab (UROP) | Outreach Committee: Girls in Electrical Engineering and Computer Science | Michigan Mars Rover Team | Michigan Hackers (iOS Team)

Bridgewater-Raritan High School, Bridgewater, NJ – *June 2020*

- Advanced Topics in Computer Science (**Data Structures** - equivalent of Rutgers University CS-112 course) ｜ AP Computer Science A
- Calculus III ｜ Differential Equations ｜ Advanced Mathematics of Engineering (includes Linear Algebra) ｜ AP Calculus BC
- AP Probability & Statistics
- AP Physics C ｜ AP Physics 1
- Computer Aided Design (CAD) Technology I

Leadership Experience

Mad Scientists Club – *Co-Founder/Co-President, August 2017 – 2020*

- Conducted experiments beyond the classroom to inspire a curiosity in science
- Explained the scientific processes behind these experiments
- Handled communications, presentation making, advertising efforts, and meeting planning

KUMON Learning Center – *Head of Employees (Minors), August 2017 – 2020*

- Monitored staff, delegating tasks to maintain an orderly, effective environment
- Taught concepts in both mathematics and reading/writing to children of varying ages
- Created a positive and engaging learning environment to ensure the best outcomes for students

Summer Internship with the National Inventors Hall of Fame – *STEM Leader, July 2017, 2018, 2019*

- Acquired mentoring and communication skills; explained fundamental concepts of entrepreneurship to create a love of invention at an early age
- Mentored a group of about 25 kids as they took apart electronics, use tools, and build inventions using household and special items to teach them how to make their ideas a reality

Skills

- Working knowledge in Java, C++ (slight knowledge in Python, HTML & CSS, SQL, Unix, Git, Swift)
- Project Planning, Public Speaking (High School Speech and Debate)

Awards/Honors

- Science National Honor Society
- AP Scholar with Distinction
- Commended Student in the National Merit Scholar Program
- Graduate of county Youth Leadership program
- Passed with Distinction on ABRSM Music Theory Grades 3 & 5 exams
- Blue Belt in Ryukyu Kempo Karate

Certifications

- NJ State Seal of Biliteracy in French
- Community Emergency Response Team (CERT)