

ROBIN SHUM

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Summary

Creative and curious student with a passion for coding and affecting positive change in the world. An alumna of the Girls Who Code at AppNexus Girls Who Code Summer Immersion Program, I have developed an understanding of the of programming languages and careers in computer science and will continue my education in the Computer Science Honors Program at Stony Brook University. I look forward to meeting fellow peers as interested in computer science as I am!

Highlights

- ❖ Proficient in Swift • JavaScript • HTML • CSS • Python • MATLAB • Final Cut Pro • Adobe Brackets • Adobe InDesign • Adobe Photoshop • Microsoft Office

Experience

New York Hall of Science, Museum Explainer **2012-present**

- ❖ Produced and featured in weekly educational videos for YouTube channel
- ❖ Explain scientific content of exhibits to visitors of all ages

Rensselaer Polytechnic Institute, Chemical Engineering **2014**

- ❖ Examined the viability of using cellulose-based surfactants to replace the toxic 1,4 dioxane found in many cosmetics

Weill Cornell Medical College, Neuroscience **2014**

- ❖ Used MATLAB to analyze and map neuron pathways of post-traumatic brain injury patients

Project Experience

Girls Who Code, AppNexus **2015**

- ❖ Created a mobile website in HTML/CSS and JavaScript that identifies and provides directions to nearby sharps disposal facilities
- ❖ Spoke about website on Fox Business News

Girl Scout Gold Award **2016**

- ❖ Built a website and educated community about the effects of toxic chemicals in cosmetics and proposed non-toxic alternatives
- ❖ Established free feminine products dispensers in school bathrooms

Robin's Bake Box **2012-present**

- ❖ Created and maintained a website to showcase unique hand-made jewelry and baked goods

Accomplishments

Engineered a fuel cell to generate clean electricity using bacteria

- ❖ International Sustainable World, Energy, Engineer & Environmental Project Olympiad, *3rd Place* **2016**
- ❖ Presidential Environmental Youth Award, *Runner-Up* **2016**
- ❖ Siemens national science competition, *Semifinalist* **2015**

NCWIT Aspirations in Computing Award, Runner-Up **2015, 2016**

Other Interests

- ❖ Web Coordination Editor of online school newspaper, responsible for creating content, designing webpages, conducting interviews, and publishing articles **2015-present**
- ❖ Orchestral Oboist, Performed at Carnegie Hall **2006-present**

Education

Stony Brook University; Computer Science, Women in Science & Engineering (WISE) Honors Scholar **Class of 2020**

Great Neck South High School **Class of 2016**

GPA: 3.8