

Samantha Yu

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Education

Simon Fraser University (*Sept. 2015 - April 2019*)

- Bachelor of Science: Computing Science Major
- **Relevant Courses:** CMPT 225 - Data Structures; CMPT 295 - Introduction to Computer Systems

Technical Skills: Java, C, C++, x86-64 Assembly, Python, MATLAB, \LaTeX , Apache, JavaScript, HTML/CSS

Projects

Automated Window Cleaner: **Java** (*Sept. 2015 - Dec. 2015*)

- Simulated a window cleaner and its suction cups moving on a skyscraper

Universal Motor for Vacuum Cleaner (*May 2015 - June 2015*)

- Built an universal motor to study electromagnetism and back-EMF

Paint Program: **Java** (*Aug. 2014 - Jan. 2015*)

- Incorporated the concept of double buffering
- Implemented the capability to add, delete, and modify layers

BC Senior Girls Volleyball Provincials Website: **HTML/CSS** (*Oct. - Nov. 2013*)

- Served sixteen teams and their supporters from all over British Columbia
- Designed overall layout including templates, drop-down menu and footer menu

Extracurricular Activities

SFU Satellite Design Club (*Feb. 2016 - Present*)

- Programming onboard computer for a weather balloon and a satellite
- Building a mobile app to display telemetry and control the camera on the weather balloon

Women in Computing Science: Website Manager (*Sept. 2015 - Present*)

- Organized the Try/CATCH 2016 conference to introduce 47 high school girls to computing science
- Transferring content from old website to updated website

IEEE Game Development Club (*Sept. 2015 - Dec. 2015*)

- Learned to program video games with Irrlicht, open source game engine in C++

Achievements

Simon Fraser University

- Simon Fraser University Open Scholarship (*May 2016*)

Microsoft

- #DevMov Competition Top Prize: Surface Pro 4 (*June 2016*)

BC Ministry of Education

- Dogwood District/Authority Award for Computer Programming (*April 2015*)

Work Experience

Kumon Assistant (*Sept. 2014 - Aug. 2015*)

- Tutored children of various levels in math and English