

SAMANTHA YU

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Education

Simon Fraser University

SEPT 2015 - APRIL 2019

- Bachelor of Science: Computing Science Major

Technical Skills

- **Languages:** Java, C, C++, Python, MATLAB, x86-64 Assembly, \LaTeX
- **Web Development:** HTML/CSS, JavaScript, Apache Web Server

Projects

Automated Window Cleaner: **Java**

SEPT 2015 - DEC 2015

- Designed an automated window cleaner with a dolly, suction cups, and water and chemical tanks
- Investigated alternative methods for attaching the window cleaner, such as gecko tape
- Developed a graphical simulation of the window cleaner washing a skyscraper in Java
- Revised the initial algorithm so that the movement was more feasible

Paint Program: **Java**

AUG 2014 - JAN 2015

- Implemented the concept of double buffering by creating an array of transparent images in Java
- Extended the program's expected capabilities so that it can add, delete, and modify layers
- Improved the suggested paint tools by using the Graphics2D library to create smoother strokes

BC Senior Girls Volleyball Provincials Website: **HTML/CSS**

OCT. 2013 - NOV. 2013

- Served 16 teams and their supporters from all over British Columbia
- Designed overall layout in HTML/CSS, including templates, drop-down menu and footer menu
- Edited my peers' webpages before publishing to the server with Adobe Dreamweaver

Extracurricular Activities

SFU Satellite Design Club: Computing Subsystem

FEB 2016 - PRESENT

- Secured a \$2500 grant from the \$10,000 that Mobify reserved for student projects
- Building a mobile app to display telemetry and control the camera on the weather balloon
- Programming onboard computer for a weather balloon and a satellite
- Entering the Canadian Satellite Design Challenge for the prize of launching a satellite into space

Women in Computing Science: Website Manager

SEPT 2015 - PRESENT

- Added a form to the website so users do not have to leave the website to subscribe to maillist
- Adjudicated Grace Hopper conference travel grants worth a cumulative total of \$12,600
- Creating a WiCS mentorship program and a technical interview study group

Achievements

Microsoft

- #DevMov Competition Top Prize: Surface Pro 4

JUNE 2016

BC Ministry of Education

- Dogwood District/Authority Award for Computer Programming

APRIL 2015