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)*

Micosoft
- #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