SAMANTHA YU

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Technical Work Experience

Google | Engineering Practicum Intern: **C++**   MAY 2017 - AUGUST 2017
- Investigating the worst cases of liquid sharding in Cloud Dataflow, a Big Data processing system
- Simulating how various algorithms would alleviate problems caused by data imbalance
- Designing and implementing algorithms that address the hidden clusters of data into production

Technical Projects

erdos: Comprehensive Math Chat Application   NOV 2016 - DEC 2016
- Rendered messages with mathematical equations and symbols using the KaTeX JavaScript library
- Enabled users to query messages to solve and graph equations with the WolframAlpha API
- Debugged several unexpected problems like duplicate chatrooms and unsorted messages

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

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

Extracurricular Activities

Women in Computing Science   SEPT 2015 - PRESENT
- Adjudicated travel grants for the Grace Hopper conference worth a cumulative total of $14,000
- Trained mentors for the new mentorship program as the mentor coordinator
- Launched a technical interview study group, CodeMavens, to practise whiteboarding

Achievements

Microsoft
- #DevMov Competition Top Prize: Surface Pro 4   JUNE 2016

BC Ministry of Education
- Dogwood District/Authority Award for Computer Programming   APRIL 2015

Education

Simon Fraser University   SEPT 2015 - APRIL 2019
- Bachelor of Science: Computing Science Major - Top 15% of CS Majors at SFU
- **Relevant Courses:** Model-Based Computer Vision (CMPT 414); Operating Systems I (CMPT 300)

Technical Skills
- **Languages:** C, C++, HTML/CSS, Java, JavaScript, LaTeX, MATLAB, x86-64 Assembly