Jessica He **Computer Engineering Student**

Vancouver, British Columbia

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SKILLS

Programming Languages	Software Tools
Java, C++, C, Verilog	**IntelliJ IDEA, Git, Linux**
x86 ASM, JavaScript, HTML, CSS, Python	RStudio, Visual Studio, Docker

EDUCATION

University of British Columbia **Expected Graduation: May 2024**
Bachelor of Applied Science - Computer Engineering
Co-op: Available for 4 or 8 months beginning May 2021

EXPERIENCES

Software Team Member **September 2018 – January 2020**
Thunderbots, UBC
- Developed AI of soccer-playing robots to compete in annual RoboCup competition **(1st place, 2019)**
- Implemented decision-making, control evaluation functions **in C++** that improved robots' gameplay
- Collaborated with team members through **Agile workflow** and completed weekly sprints
- Learned professional etiquette for **code version control** and **testing** under seniors' mentorship

TECHNICAL PROJECTS

Hopp-ing Through History 🔗 **March 2021**
cmd-f Hackathon 2021 Submission
- Created a simple, charming **web browser game** that educates about female representation in tech
- Sped learn **JavaScript, HTML, CSS** to basic working knowledge within 24 hours
- Improved gameplay physics such as character jumps for better user experience

Wikipedia Mediator Server **November 2020 – January 2021**
- Built a **thread-safe**, server application that accesses Wikipedia and parses **JSON**-formatted queries
- Implemented a **network socket** capable of listening and handling client connections
- Designed a finite buffer that aids data caching and sped up access to recent queries

Graph Interface and Abstract Data Type **October 2020 – December 2020**
- Programmed an **encapsulated interface** that represents a directed graph using adjacency list
- Constructed various **graph algorithms** such as search, traversal, and distance calculations

VOLUNTEERING

President **August 2015 – September 2018**
CACTES Association, Surrey, British Columbia
- Fostered leadership for team of over 60 members and established communication with members
- Oversaw local charity events that raised over $3,000 in total for non-profit organizations in Nepal

Orientation Leader **February 2018 – September 2018**
UBC Imagine Day Orientation
- Cultivated a group of 10 new-to-UBC students to foster an engaged, respectful community