

# Celine Huang

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## EDUCATION

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- **McGill University** Montreal, QC  
*B.A. Major in Computer Science; B.A. Minor in Mathematics* *Sept. 2016 – Dec. 2020*
  - **Relevant Coursework:** Algorithms and Data Structures, Operating Systems, Database Systems (in progress), Computer Networks (in progress), Software Engineering Project (in progress), Numerical Analysis, Statistics
- **Lord Byng Secondary School** Vancouver, BC  
*Byng Arts Mini Program; Graduated with Honors* *Sept. 2011 – June 2016*

## EXPERIENCE

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- **Plotly** Montreal, QC  
*Software Developer* *Feb. 2019 - Aug. 2019*
  - **Dash Web Applications:** Redesigned and polished open-source applications used in various sectors such as finance, machine learning, energy transportation, biology and more. All applications are displayed on Plotly's public gallery where the source code can be found in a public repository.
  - **Data Manipulation:** Worked with various Python libraries to explore and filter through data sets so that graphs could efficiently convey information to clients.
  - **Sales Team Applications:** Designed and built new interactive data analytics applications with Plotly's enterprise products for the sales team to demo to industry partners.
  - **Open Source Graphing Library:** Maintained Plotly's Dash Core Components library issues relating to better performance and usability.
- **McGill Formula Electric** Montreal, QC  
*Club Member - Software Team* *Sept. 2018 - Aug. 2019*
  - **Vehicle Controls Team:** Worked on the software implementation and modelled the vehicle's dynamics simulation of the engineering design team's electric race car. Won first place overall in FSAE Electrical Championships.
  - **State Estimator:** Implemented and tested safety checks for the throttle control while adjusting the software based on the team's car.
- **McGill Ultimate Frisbee Team** Montreal, QC  
*Varsity Athlete and Executive Member* *Jan. 2017 - Present*
  - **Vice President:** Oversee the club to ensure all operations, including field bookings, tournament logistics and more, are run smoothly between all other executive members and club members.
  - **Fundraiser Director:** Planned and organized fundraising events for all four teams in the club. Assisted the president with the club's finances and sought out sponsors for the season.

## PROJECTS

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- **Roomie:** Created a web application to allow roommates to keep track of their shared expenses in a simple way. Used Node/Express for the backend and React for the UI.
- **Home Insurance Photo Analyzer:** Created a web application at McGill's CodeJam for analyzing images of personal belongings to simplify individual home insurance claims. Won second place overall and best insurance-related project for Intact's company challenge.
- **Simple Resource Container:** Modelled a container after the popular Docker container format; implemented using features supported by Linux including namespaces, control groups, system call filtering, and fine-grained capability management.

## TECHNICAL SKILLS

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- **Programming:** Java, C, Bash/Shell, Python, JavaScript, HTML, CSS, C++
- **Technologies/ Libraries:** Flask, Dash, Vue.js, Git, React

## EXTRACURRICULARS AND AWARDS

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- **BC Achievement Scholarship:** Awarded by the BC Ministry based on achievements in Grades 10 - 12.
- **Vancouver Youth Symphony Orchestra:** Learned multiple pieces for three different concerts every year. Performed at Carnegie Hall and other international venues.
- **Band Leadership Award:** Selected by the band director based on leadership demonstrated in the music program.