

Kaitlyn Lee

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in [linkedin.com/in/kaitlyn-lee123/](https://www.linkedin.com/in/kaitlyn-lee123/)

🖱 kaitlynvlee.com

🔗 github.com/K8Y

🔧 devpost.com/K8Y

Skills

Languages

C++, Java, HTML5,
CSS3, JavaScript, VBA

Technologies

Git, Bootstrap4, jQuery, JSON,
Eclipse IDE, Excel

CAD Software

SolidWorks, SolidWorks FEA,
AutoCAD

Education

Mechatronics Engineering

University of Waterloo | 2018 - 2023
gpa: 87.55%

Français Langue Étrangère

Université Laval | Jul - Aug 2018

Coursework

Algorithms and Data Structures
Linear Algebra
Circuits
Engineering Graphics and Design

Achievements

President's Scholarship

University of Waterloo
Sept 2018

Top 25% - Canadian Computing Competition Junior

University of Waterloo
Feb 2018

Languages

French | working proficiency

Projects

eKnock | StarterHacks

Jan 2019

- Implemented the Spotify Recommendations **RESTful API** to search and filter for songs based on valence value (mood)
- Used **Android Studio** to read **JSON** file and returned a link to the song in the app
- Used **Github** to maintain version control and for work division

Personal Website

Feb 2019

- Designed and created website using **HTML5**, **CSS3**, **JavaScript**, **jQuery**, **Bootstrap4**
- Maintained version control using **Githib**

Solitaire Game | School Project

Jan 2018

- Utilized **Object-Oriented Programming** in **Java** to create an applet
- Wrote algorithms to determine validity of card moves
- Created classes to generate the graphics and maintain reusability throughout code

Experience

Guidance Engineer | Waterloo

Sep 2018 - Present

- Student Design Team at UWaterloo that designs and builds a Hyperloop pod for the SpaceX Hyperloop Competition
- Researched and designed the guidance and suspension system of Waterloo's Hyperloop pod using **SolidWorks**
- Conducted Finite Element Analysis to test stress and deflection of wheel system using **SolidWorks FEA** to ensure adherence to safety requirements
- Created technical manufacturing and assembly drawings using **GD&T** so the team can manufacture the parts
- Wrote the Guidance Design Overview and Top Wheel FEA section in the Final Design Proposal submitted to SpaceX using LaTeX