

## Tools

- Python, C++, Node.js, Javascript, Java
- Octave
- HTML, CSS, Bootstrap, JQuery
- Unity, C#
- Android Studio
- Adobe Suite, Figma

## Relevant Courses

- Data Structures and Algorithms  
SYDE 223 - Dr. Igor Ivkovic
- Machine Learning  
Stanford University Coursera  
Dr. Andrew Ng

## Interests

- Machine Learning, Artificial Intelligence, Neural Networks
- Film, Screenwriting, Cinematography
- Science Fiction
- Art History, Curatorial Studies

## Work Tools

- Agile/Sprint, Jira, Git
- Ubuntu, OSX, Linux

## Contact

-  /thecoldmoon
-  lululiu.me
-  ly7liu@uwaterloo.ca
-  /luyuliu

## Projects

- Designing **Alexa Skill** to conduct interviews with start-up entrepreneurs by using models collected from **machine learning** clustering based on previous reports
- Developing **location app** to alert foreign travelers of their proximity to destination stops using Google API in Android Studio
- Realized a **liquid monitoring IoT system** for the service industry using Arduino, Android Studio **winning 2018 EngHacks competition**
- Prototyped a **shock watch** product aimed towards improving student alertness using **iterative design**

## Experience

- Amazon Alexa Developer Dec 2018 - Present  
University of Waterloo
  - Developing Alexa Skills using AWS Lambda saving up to **20hrs of productivity** for professors and users involved
  - Researching **dialog management models** of productivity tools using fundamentals of user-centered Design
  - **Undergraduate research assistant** position under the supervision of Dr.Igor Ivkovic and Dr. Alexander Wong
- UI/UX Developer Sept 2018 - Dec 2018  
OpenText Corporation
  - Designed storage-tracking product impacting **1000+ clients** using user research from Enterprise conference
  - Developed assets search tool and interface increasing UX department's **work flow by 20%** using Jekyll and React
  - Devised high-fidelity mockups and specifications for UI web components and iconography using Figma and AI
- Mechanical Engineer May 2018 - Aug 2018  
Waterloop
  - Devised and researched application of **linear-induction motors and thermoelectric cooling** on transport pod
  - Modeled and tested component prototypes for SpaceX competition through SolidWorks CAD modelling
- Front-End Developer Jan 2018 - Apr 2018  
Ontario Teachers' Pension Plan
  - Built a KPI tracking dashboard tracking social media engagement, improving **user engagement by 20%**
  - Implemented pension buyback, increased program **engagement and understanding by 25%**
  - Analyzed web user traffic using Adobe Analytics, supporting ongoing pension campaigns

## Education

- Systems Design Engineering Apr 2018  
Candidate for Bachelor's of Applied Science  
**Dean's Honours List - 1A/B, 91.75% average**