

# Joanna Lu

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## EDUCATION

### University of Waterloo

B.Math, Honors Computer Science and Statistics Double Major

Waterloo, ON

Sept. 2015 - Dec. 2019

*Selected Coursework:* Algorithms, Linear Algebra, Artificial Intelligence, Distrib. Systems, Databases

## EXPERIENCE

### Jane Street LLC

Software Engineering Intern

New York, NY

Sept. 2019 - Nov. 2019

- Project to be determined

### Facebook

Software Engineering Intern

New York, NY

May 2019 - Aug. 2019

- Project to be determined

### Google

Software Engineering Intern

Seattle, WA

May 2018 - Aug. 2018

- Built a fault injection framework to test resilience and reliability of Google Compute Engine's Control Plane using Python, RPC and protocol buffers.
- Used stubbing and mocking to simulate production environment to uncover and assert behaviour and developed a tracing feature for threading operations in distributed backend

### Yahoo

Software Engineering Intern

Sunnyvale, CA

Jan. 2018 - Apr. 2018

- Used React and Javascript to develop search segmented controls to render different views of messages, documents, photos within mail inbox, alongside UX and Product Management teams.

### SAP

Product Management Intern

Waterloo, ON

May 2017 - Aug. 2017

- Implement deployment strategies/timelines for in-memory database feature, Dynamic Tiering and created interactive data visualizations for win-loss and market analysis using SQL, D3 and Jupyter.

### Capital One

Data Scientist Intern

Waterloo, ON

May 2016 - Aug. 2016

- Built aggregated data pipelines between Redshift and MongoDB for front-end data visualization tools and charts using text classification modelling, data mining and SQL.

## LEADERSHIP AND INVOLVEMENTS

### Waterloo Data Science Club, President

2016 - Present

- Responsible for workshops, industry speakers, increasing club membership of over 500 members and managing executive team.

### Google Computer Science Summer Institute, Teaching Assistant

June - July 2018

- Mentored and assisted high school students in developing a functioning web platform project.

### Acabellas, Soprano Vocalist and Arranger

Sept - April 2016

- Arranged SATB a capella pieces for performance at local venues and concerts.  
Qualified for the International Championship of Collegiate A Capella Choir 2016.

## PROJECTS AND ORGANIZATIONS

### Log(me), Hack the North (TD First Prize)

2017

- Mental health web journal that uses sentiment analysis and text parsing to create data visualizations for user to monitor their own trends and behaviour

### CC3K, C++ MVC Game Class Project

2016

- Developed text terminal game with characters, dungeons and battles using OOP design patterns.

## AWARDS

**Google Grace Hopper Scholarship**, For community and leadership involvements

2018

**Hack the North TD First Prize**, Mental health journal project

2017

**June Nicholson Scholarship**, UWaterloo Entrance Scholarship for Excellence

2017

**American Math Contest Top 5%**, Invitational Round Qualifier

2015