

# ROSE XU

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## EDUCATION

### UNIVERSITY OF WATERLOO

CLASS OF 2019

#### COMPUTER SCIENCE, COMBINATORICS & OPTIMIZATION

GPA: 3.94; Average: 93%

### NATIONAL UNI. OF SINGAPORE

Exchange Fall 2017

*Relevant Courses:*

Cryptography, Algorithms, OS,  
Functional Programming, Cognitive  
Psychology, Semantics (Linguistics)

## TECHNICAL SKILLS

### Languages:

*Proficient in:*

Python • Java • JavaScript

*Experience with:*

MySQL • Scala • C++ • Ruby • PHP  
HTML • CSS • Bash • PowerShell

### Tools and Frameworks:

Git, Backbone, Flask, Spring, Solr,  
Presto, Azure, Unit and Integration  
Testing tools

## OTHER ENDEAVOURS

- Varsity ultimate frisbee team
- Intramurals Basketball Referee

## AWARDS

Gaby Barsky Memorial Scholarship  
(Nov 2017)

K.C. Lee Computer Science  
Scholarship (Nov 2016)

Dean's Honour List (every term)

## INTERESTS

*Academic:* Functional Programming,  
Natural Language Processing,  
Linguistics

*Other:* Ultimate Frisbee, Biking

## WORK EXPERIENCE

### MICROSOFT | Program Manager Intern | Azure Stack

*Redmond, Apr – Aug 2017*

- Conducted interviews with Azure Stack customers with regard to hybrid and private cloud analytics and collected research data
- Based on research, identified needs and designed a solution for cloud operators and business to monitor and analyze cloud usage data
- Built and iterated on a data pipeline and dashboard using PowerShell and Power BI, to be released as an open-source tool

### SLACK | Backend Engineering Intern | Growth Team

*San Francisco, Aug – Dec 2016*

- Built the infrastructure for batch sending emails in PHP and MySQL that has since been extended to send out over 4 million emails
- Owned the slackbot welcome post from technical design to development to iterating based on analytics and user feedback
- Wrote ad-hoc SQL queries to retrieve relevant metrics from the data warehouse and analyzed results from experiments
- Collaborated with the mobile team to build the backend for Slack's first all-purpose push notification

### UNIVERSITY OF WATERLOO | Undergraduate Research Assistant

*Waterloo, May – Aug 2016*

- Implemented SQL query rewrites in Common Lisp in the setting of ontology-based data access

### INKLING | Software Engineering Intern | Full-Stack

*San Francisco, Jan – Apr 2016*

- Development on Inklings' authoring product, *Habitat*, using JavaScript (ES6), Python, and Ruby
- Iterated on *Habitat's* inline editing tool; wrote unit tests for every change pushed to production
- Picked up Ruby on Rails and added custom logging utilities for monitoring HTTP requests to identify performance bottlenecks

### LOBLAW DIGITAL | Software Developer Intern | Full-Stack

*Toronto, May – Aug 2015*

- Java and JavaScript development on the Spring and Backbone framework for Loblaw's *Click and Collect* system
- Launched key new features including a search bar to the "Getting Started" flow, a complete revamp of the "Store Locator" page and a new solr core schema for searching recipes