

Monica Xu

4 A C S / S T A T S S T U D E N T

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EDUCATION

University of Waterloo

Bachelor of Computer Science
Statistics Minor
Business Minor

September 2016 – present

SKILLS

Languages: Java, Python, C/C++, HTML, CSS, JavaScript, SQL, R, Racket

Technologies/Frameworks: Git, Gitlab, Spring, HBase, Samza, Kafka, AWS, Android Studio, Bigtable, Flask, Salesforce Marketing Cloud

AWARDS

Hack the North Winner 2018
Top 12 of 240+ project submissions.

Square Code Camp Finalist 2018
Granted to 20 of 600+ North American female applicants. All expenses tech enrichment program at Square HQ.

UW WiCS GHC Scholar 2018
Granted to 40 female students pursuing a technical degree at UW. Full scholarship to attend the Grace Hopper Conference.

Google GHC Travel Grant 2018
Full scholarship to attend Grace Hopper.

Top Scholar 2018
Top Canadian graduating GPA (100%).

Kalbfleish National Scholar 2018
University of Waterloo, Faculty of Math
For excellence in academics, contests, and extracurriculars. Valued at \$14,000— the third largest scholarship at UW.

Rewriting the Code Fellow . 2018 - present

WORK EXPERIENCE

Software Engineering Intern May 2019 – present
LinkedIn | Notifications Backend Infrastructure

- Simulated TCP congestion control algorithms using Python scripts and Samza applications to validate proof of concept and business value of dynamic rate limiter
- Implementing dynamic rate limiter library to more intelligently use QPS in notifications ingestion workflow

Engineering Practicum Intern May. 2018 – Aug. 2018
Google | Display Ads – Engineering Productivity

- Designed and implemented an interactive dashboard for release metrics, allowing engineers to easily provide test feedback and analyze statistics
- Built frontend and backend for the dashboard's time series analysis feature, enabling release engineers to identify time-related anomalies
- Built data validators & configured probe services to preserve data integrity
- Migrated Bigtable API logic to GoogleSQL, reducing latency by 50%
- Refactored over 200 lines of code for reusability/maintainability

Software Engineering Intern Jan. 2018 – Apr. 2018
Oath Inc. | Yahoo Mail Metadata & Search

- Implemented filters and simplified business logic of logging module in Java, reducing log sizes by 60% and enhancing developer debugging capabilities
- Revised scripts to improve data retrieval from HBase
- Refactored configuration classes to enable concurrent unit tests

Full-Stack Developer Intern May 2017 – Sept. 2017
Loblaw Digital | Click and Collect Online Grocery Shopping

- Integrated Salesforce Marketing Cloud APIs and addressed client feedback, enhancing customer journeys for email subscriptions
- Designed and implemented an intuitive interface for website content customizability, enabling easier and dynamic updates of text/images/layouts
- Created Cron Jobs and Java Spring Boot applications to stub API behaviour, expediting automation testing and migration
- Resolved front-end and back-end bugs for online grocery account logic