

TALIA WANG



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Education

University of Waterloo: Bachelor of Computer Science

Sept. 2019 - May 2024 (Expected Graduation)

- Cumulative GPA: 91%, Major GPA: 94%
- Relevant courses: Data Structures (Enriched, 90%), Object-Oriented Software Development (98%), Compilers (Enriched, 99%)
- Pursuing specializations in Artificial Intelligence and Human-Computer Interaction.

Technical Skills

Programming Languages

- C++, JavaScript, Python, Java, HTML/CSS, C, TypeScript

Tools and Technologies

- Git, Linux, React.js, Node.js, Perforce, jQuery, Jira, Bootstrap, Eclipse, IntelliJ, Firebase, Firestore, Heroku
- HTTP, JSON, Object-oriented programming, SQL/NoSQL

Experience

Software Engineer Intern

Salesforce | Sept. 2021 - Dec. 2021 (Present)

- Building new user interface and its backend with **Java** to improve integration of external customer data sources with our core app.

Undergraduate Research Assistant

University of Waterloo (Human-Computer Interaction and Health Lab) | May 2021 - Aug. 2021

- Used **Python** to expand tool that mines social media data and processes it with machine learning to support qualitative researchers.
- Implemented an NMF machine learning model using **Scikit-Learn**, improving topic model generation time by **6000%+**.
- Developed support for integrating Twitter data with **Tweepy**: handled authentication, query generation, data retrieval/visualization.

Junior Software Developer

Xero (Hubdoc) | Jan. 2021 - Apr. 2021

- Reinforced automated web-scraping bots that fetch financial documents for accountants and small/medium businesses, using asynchronous **JavaScript**, **jQuery**, **Puppeteer.js**, **Nightmare.js**, and **HTML/CSS**.
- Wrote code deployed in Hubdoc's core product with a direct and immediate **positive impact on 8,650+ customers**.
- Moved scraping connections for **1,130+ customers** out of a failing state, **decreasing failing users by 75%** for a major vendor.
- Expanded and refactored a key web-scraper for RBC, fetching **125,000+** new financial documents for **6,670+** customers.
- Tackled a serious issue involving a third-party API from the Bank of America that affected **1,260+** customers.
- Developed and tested a feature for our internal platform (using **Backbone.js**, **Mocha**, and **Chai**) to categorize notes on our roster of **600+ bots**, creating more effective communication between our software developers and Customer Experience team.

Software Developer Co-op

BlackBerry | Jun. 2020 - Aug. 2020

- Researched and **resolved 22+ customer issues** regarding the QNX embedded operating system.
- Reproduced and debugged errors in customer QNX **C/C++** projects by working efficiently in a command-line and **Eclipse** environment on a Windows host computer and QNX/**Linux** virtual machines in VMware Workstation Pro.
- Tested and reported critical errors in **Docker** setup documentation prior to the major release of the QNX SDP 7.1.

Projects </>

HalcyonDays

- Time visualizer and task organizer web app developed at the COVID-19 Global Hackathon 2.0, receiving an Honourable Mention and placing in the **top 7 out of 118 global submissions** for "immense strides in support of accessible mental health & wellness."
- Built the app end-to-end as the only developer, using **React.js**, **Firestore**, and **Heroku**.

Space Invaders

- Multi-level shooting game built independently using **Java**, **JavaFX**, and **Gradle**, featuring self-composed music and sound effects.

COVID-19 Store Tracker

- Lead developer for this project, using **React.js** and **Firestore** to build an app that encourages users to update when they enter and leave a store, allowing the elderly and vulnerable to avoid crowded places.

Achievements

- **Ontario Power Generation Engineering Award (\$2,400)**: presented to one engineering student at the University of Waterloo for leadership, strong communication, and meaningful extracurricular involvement.
- **President's Research Award (\$1,500)**: awarded to academically strong undergraduate researchers.