

# Willson Wang

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## Technical Skills

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**Languages:** C, C++, Python, JavaScript, HTML, CSS, SASS, jQuery

**Other Tools:** Git/GitHub, Bash, AWS S3, Google Cloud APIs, Twilio API, BeautifulSoup

## Work Experience

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**Front End Developer, Purolator Inc, Mississauga**

May 2019 – Aug 2019

- Revamped UI of consumer-facing website applications with **over 1.4 million weekly visitors** by leveraging HTML, SASS, and Bootstrap
- **Expanded userbase by 35%** by enhancing mobile functionality of applications using jQuery
- Improved traffic and performance tracking capabilities by implementing **custom JavaScript algorithms** in Google Analytics

## Projects

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**Game of Stratego (C++)**

Sep 2019 – Dec 2019

- Implemented a modified version of Stratego in C++ using **object-oriented design principles** to maximize cohesion and scalability of implementation
- Optimized memory management by implementing heap-allocated resources using the RAII idiom
- Included optional 2D graphics through command-line argument flags and Xlib library

**Automated Stock Tracking (Python, Twilio)**

Aug 2019 – Oct 2019

- Created web scraper using Python and BeautifulSoup library to **track stock prices in real time**
- Used **Twilio API** to automatically send SMS feeds to user when stock value changes by a specific percentage determined by the user

**Voice Controlled Programming (Python, Google Cloud)**

Sep 2019

- Developed Python program as part of **Hack the North 2019** project to **automate the software development process** by enabling users to create programs using their voice
- Integrated Google Speech API to maximize accuracy of speech-to-text conversions

**User Detection System (C++)**

Jun 2019

- Built Arduino system as part of **uwEnergyHacks 2019** project to effectively determine the number of occupants in a room using infrared break-beam lasers
- Developed and implemented algorithm in C++ to **increase detection accuracy by 75%**

## Education

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**University of Waterloo**

Sep 2018 – present

Candidate for Bachelor's of Computer Science