

# Isabelle Sauvé



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## Languages

C++  
JavaScript  
HTML & CSS  
PHP  
Java  
Python  
MATLAB  
ARM & MIPS

## Libraries/ Frameworks

Node.js  
Express.js  
jQuery  
Bootstrap  
AJAX  
Redis  
SimpleSAMLphp  
WebSocket-Node

## APIs

Twilio  
Firebase  
Google Vision  
Google Maps  
Bing Spellcheck

## Tools

Postman  
PhoneGap  
GitHub  
Jetbrains IDEs

## Languages

English (Native proficiency)  
French (Native proficiency)

## Education

Bachelor of Software Engineering | Business Option | Co-op  
University of Waterloo | Sept. 2016 – April 2020

## Projects

- NatalNet** SMS and web app that increases the accessibility of pre- and post-natal care for women in rural communities of Bangladesh  
*Full Stack Developer (Team of 5)*  
*Twilio, Firebase, Node.js, Express.js, Bootstrap*  
*Break Inequality Hackathon Grand Prize Winner*  
*Google Technology Competition Winner*  
*Featured on CBC, Google Students Blog, & more*
- NutriFence** Mobile app for people with dietary restrictions that uses OCR to scan food labels and determines if the item is suitable for their diet  
*Back End Developer (Team of 4)*  
*Google Vision Cloud, Node.js, Express.js, Redis*  
*ArchHacks Best Nutritional Hack Winner*
- Word Switcher** Chrome extension that switches every occurrence on a web page of a chosen input word for some other input word  
*Personal Project*
- Retro Games** Pong, Snake, and Space Invaders built with solely with JavaScript and HTML5 canvas  
*Personal Project*
- Personal Website** Online portfolio designed and built from scratch, including a parallax scrolling effect and responsive features  
*Personal Project*

## Professional Experience

- Jan-Apr 2017** **Undergraduate Research Assistant** // UWaterloo
- Increased security, performance, and reliability by switching from REST communication protocol to WebSocket-Node
  - Reduced code complexity by refactoring back end from multiple PHP pages to a modularized Node.js server
  - Increased app scalability by incorporating Google Maps JavaScript API into front end
- May-Aug 2016** **App Developer** // WatCAR's Autonomoose
- Singlehandedly designed and developed web app - including responsive front end and RESTful back end - using JavaScript, Bootstrap, PHP and Redis
  - Configured and integrated SimpleSAML user authentication
  - Created complex features including real-time display of: car location, wait time to be picked up, request queue, etc.
- May-Aug 2015** **Assistant Researcher** // University of Alberta Hospital
- Gathered and analyzed data on DVT/PE occurrences
- 2012-2014** **Rock Climbing Instructor** // Vertically Inclined Rock Gym