

# MARGARETBREWSTER

University of Waterloo Systems Design Engineering

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## LANGUAGES

- C++, C#, Java
- CSS
- Visual Basic
- HTML
- SQL
- JavaScript

## FRAMEWORKS

- Bootstrap, Less.js, Sass
- D3.js, Blueprint.Js
- React.js, Redux
- .Net
- Angular.js, RxJs
- Google, Shopify, Paypal APIs

## TOOLS

- Node.js
- Git, Bash, npm, grunt, yarn, mvn
- Octopus Deploy, Teamcity, Coveralls, Travis, LGTM
- Peg.js
- Jest, Puppeteer, Mocha, Playwrite

## EXPERIENCE

### User Interface Engineer | Impley, San Francisco, May 2019 - August 2019 January 2020 - May 2020

- Built an SQL parser for Druid SQL using **Peg. Js**
- Contributed **Java** code to **Core-Druid** to **prevent data loss** through null column indexing in the sampler.
- Published the **druid-query-toolkit library**, to manipulate SQL queries allowing for a **point-and-click** querying application to be implemented in the Apache Druid Web Console.
- Used **React. Js, Blueprint.Js, D3.js** and Apache Druid to build custom web applications.
- Followed a test driven design method using the **Jest and playwright** testing libraries.
- Developed a series of **API's** to allow clients to embed charts from Impley pivot into proprietary website.

### UX Developer | Inflight Corporation, Kitchener, September 2018 - May 2019

- Acted as **lead designer** to craft justified UX design using **personas, heuristics** and **prototype validation**.
- Used **Angular.Js** to modernize user experience of PeopleSoft and Benefits Enterprise applications.
- Created mobile **responsive** page layouts for Chrome, Firefox and IE11 using CSS grid and Bootstrap.
- Designed mock-ups resulting in three new client acquisitions (\$500 000 in new business per client)
- Worked with and created multiple proprietary **npm packages** to maintain modular repeatable code

### Engineering Intern | Shaw Telecommunication, Calgary, Jan 2018- April 2018

- Upgraded Shaw Newsroom to **A level W3C web accessibility** standards.
- Worked with **CLUA, EKTRON** and **ATG** content management systems to build responsive web pages
- Implemented **Optimizely** code to create targeted commerce streams
- Used **Adobe analytics** to track purchasing habits of customers and create optimization use cases.

### Web Development Intern | Grey ADV, Calgary, August 2016

- Programmed in **HTML, CSS, Bootstrap, JavaScript** and integrated APIs to suit client specification.
- Reduced company operation costs by \$2500 by identifying partnerships with local hosting companies.

### 1st Robotics Mentor and Lead | Aberhart Robotics, Calgary, September 2016

- Taught **Java** and the First robotics library.
- Used **Android Studios** to program a mobile app for robot control.

## AWARDS

- **Waterloo EngSoc Presidents Award, 2019:** recognized for volunteer work in the engineering society
- **Top 3 Eng hacks, 2016:** Was awarded first place for an IOT device created at Enghack 2018.
- **Loran Provincial Award Recipient, 2017:** Received for community leadership and mentor Work.
- **Best Website Shad Dobison Entrepreneurial Cup, 2016:** Was Awarded first place for best website design.