

## Development Expertise

- 🖥 **Front-end** • HTML5, CSS3, ES6, JavaScript (jQuery, React & Redux), Bootstrap 3 & 4
  - 🖥 **Back-end** • PHP, Silex, Symfony, Node.js, Python, Python3, Flask, Django, MySQL, MariaDB, PostgreSQL
  - ⚙️ **DevOps** • Make, Bash, Expect, NGINX, Git, Kubernetes, Minikube, Docker (Compose & Swarm)
  - 🐧 **Environment** • GNU/Linux (Ubuntu Server, Fedora, CentOS), Windows, MacOS
  - 📊 **Data Science** • Pandas, Numpy, Dask, ChartJS, DraculaJS, Pentaho BA
  - 📱 **Mobile** • Android, Android-NDK
- 

## Work Experience

### Business Intelligence Developer for *Inbox Marketer*

September 2017 to Present

Primary role at Inbox Marketer in Guelph, Ontario was to implement features, and rebuild the internal reporting platform utilized by clients such as AT&T, Scotiabank and The Cooperators.

I was able to scale up the reporting platform by implementing snapshot reports which enabled clients to gauge the success of their deployed mailing solutions. Also played a major role in the design and development of the new reporting platform. Handled architecting the project documentation as well as managing issues and team members in an Agile environment.

I was able to introduce new technologies to teams at Inbox Marketer, such as Docker and Kubernetes which were used to containerize applications and services. During the proof of concept phases I was responsible for building Django and Flask based back-end APIs, and provided an additional Artillery.io container which was used for load testing the proof of concepts. I was able to provide various scripts and Make builds for specific projects, enabling easy command-line creation, management, deployment and destruction.

My focus during 2018, was to develop the new reporting platform using what we had learned from the proof of concept phase. Main focus over the past couple of months was to design the front-end. Was able to design a modular, scalable and maintainable framework utilizing React and Redux.

I was able to configure the Webpack and various deployment scripts and containers to build as well as host the application. Also setup a TDD environment using Jest, Enzyme, Sinon and various mock adapters.

Later in 2018 I worked on a request for proposal, entailing generating several use stories to identify the client's requirements. From these gathered requirements, and identifying the core competencies of our company, I was able to aid in the construction of a successful pitch for a fairly large contract.

### Data Specialist for *Inbox Marketer*

June 2017 to September 2017

Made use of Pandas and Dask Python modules to prepare big datasets which were used by undergraduate research students and graduate students at the University of Guelph. Created a small analytics and visualization web app using these modules in conjunction with a lightweight Flask server. The web app accepted various datasets to be uploaded and analyzed, displaying various visualizations to the user. The web application had to utilize Dask in order to handle datasets in excess of 30GB.

### Undergraduate Research Assistant for *University of Guelph*

May 2016 to December 2016

Responsible for EMC data analysis. Generated site map directed graphs displaying time on task and provided visualizations to the client. Created new back-end API for IFS using Silex micro framework and PHP.

### Teaching Assistant at *University of Guelph*

September 2016 to December 2016

---

## Education

### *University of Guelph*

Graduated August 2017

Bachelor of Computing, Computer Science