

## Skills

- Javascript, Python, C++, PHP, SQL, HTML, CSS
- React, Redux, Node, Azure, MongoDB, MySQL, AngularJS, Flask, Numpy, Scikit-learn, Pandas

## Experience

**RiverPay** Software Engineering Co-op - SF Bay Area May 2019 - Present

- Built WordPress extension allowing seamless integration of RiverPay payment gateways into existing e-commerce stores with full support for transactions, refunds and metrics
- Developed software to take in ESCPOS binary data, rebuilding it into images, and parsing into text data for analysis using PHP, ImageMagick and Tesseract OCR

**Bonfire Interactive** Software Engineering Co-op - Kitchener Sept 2018 - Dec 2018

- Built and maintained issue detection service in Python reducing client support load by **~25%**
- Improved load time by **~70%** by switching to Promise based retrieval of **10000+** response objects from Zendesk
- Built resources with complete unit test coverage in Node API following factory design pattern
- Built first production feature to use React and Node, leading migration away from legacy stack

**University of Waterloo** Computing Assistant - Waterloo Jan 2018 - Apr 2018

- Built web templates to bootstrap new internal tools to allow for quick internal tool creation

## Projects

**EngHack 2019** <https://www.enghack.com> Jan 2019 - June 2019

- Acted as lead developer, building website for MLH hackathon that received **600+** applications
- Built tool to collect emails for mailing list used **200+** times by website visitors

**Movie Review Classifier** <https://github.com/lee-ma/movie-review-classifier> May 2019

- Trained model using Logistic Regression with Stochastic Gradient Descent with scikit-learn and feature vectorizing with Numpy, achieving sentiment classification with **~95% accuracy**
- Embedded model into Flask webapp with user feedback to continually improve model accuracy

**SmartEQ** <https://github.com/lee-ma/SmartEQ> Jan 2019

- Winner of **Sunlife Best Healthy Living Hack** and **TD Best Green Hack** at QHacks 2019
- Utilized Microsoft Azure Cognitive Science APIs and webcam for emotion analysis, with SocketIO for sending data back and forth between React client and Flask API

## Education

**University of Waterloo** Sept 2017 - May 2022 (Expected)

- BAsC in Computer Engineering - 80% Average