

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 new and 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