Lee Ma

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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

- Implemented signature based auth from scratch into API, securing data of **2000+** merchants
- Built WordPress extension allowing seamless integration of payment gateways into new and existing e-commerce stores with full support for transactions, refunds and metrics
- Utilized PHP with ImageMagick and TesseractOCR to rebuild ESCPOS binary into images and then parse into text data for analysis

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

- Developed and maintained issue detection tool in Python, reducing client support load **~25%**
- Cut internal tool load time by **~70%** by implementing asynchronous fetching from Zendesk API
- Wrote crucial parts of 1st feature built on React/Node, kicking off tech stack modernization
- Created Node API resources following factory design pattern with complete unit test coverage

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

- Developed templates to bootstrap web projects allowing quick creation of new internal tools

Projects

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

- Sole developer of website for MLH hackathon that received **600+** unique 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 webcamera for emotion analysis, with SocketIO for continous stream of data between React client and Flask API

Education

University of Waterloo Sept 2017 - May 2022 (Expected)

- BASc in Computer Engineering - 80% Cumulative Average