Lee Ma

leema.ca • lee.ma@uwaterloo.ca • github.com/lee-ma

Skills

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

Experience

RiverPay   Software Engineering Co-op - San Francisco Bay Area   May 2019 - Present

- Implemented signature based auth from scratch into APIs, securing data of 2000+ merchants
- Migrated monolithic software to microservices architecture, improving modularity of systems
- Built WordPress extension allowing seamless integration of payment gateways into new and existing e-commerce stores with full support for transactions, refunds and metrics
- Created tool 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 using 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