

Shuhan (Laura) Liu

4A Computer Engineering | University of Waterloo
226-791-8629 | s486liu@uwaterloo.ca | Shuhan-liu.com

SKILLS

- Languages: Python, JavaScript, C++, TypeScript, Java, HTML, CSS, PHP, SQL
 - Tools: Node.js, Git, MongoDB, RabbitMQ, MS Azure, AWS, Postman, Jest, Linux
 - Libraries & Frameworks: jQuery, React, Express, Angular, Bootstrap, Leaflet
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EXPERIENCE

Full Stack Developer

PiinPoint, Kitchener, ON, Canada

May 2020-August 2020

- Developed a **web-based** analytical mapping software using **JavaScript/React** and **Python**
- Utilized **Node.js** and **MongoDB** to manage business data the software needed to perform analysis and evaluation of potential customers near selected locations
- Integrated the application with **Google Maps API** and **Leaflet** to implement basic map features including marking spots and displaying detailed location information

Software Engineering Intern

MCAP, Waterloo, ON, Canada

September 2019-December 2019

- Developed a **single-page** mortgage lending application using **TypeScript/React** and **Node.js/Express**
- Architected a microservice-based distributed system for the application and managed the back-end data with **MongoDB**, **RabbitMQ** and **RESTful** web services
- Participated in **Agile** team events such as sprint planning & review, modeling and pair programming

Web Developer

Purolator, Mississauga, ON, Canada

January 2019-April 2019

- Developed a web application which integrated with **IBM Watson** and **BACA** (OCR data extraction) to automatically lift data from bills and reduce the manual work by **80%**
 - Built a user-friendly interface with form validation using **JavaScript/Angular** for data reviewing
 - Implemented **RESTful** API endpoints for the web application and database using **PHP**
 - Used **Node.js**, **Python** and **AWS Lambda** to create an Amazon Alexa skill which helps users track their package and find the nearest pick-up location by speaking to Alexa mobile APP
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PROJECTS

Game Price Comparison Tool

March 2022

- Utilized **Python** to develop a web crawler that can obtain and compare game prices and current deals from Nintendo online game store in USA and Canada
- Using file stream operation to output the prices in table format to better visualize the data for users

Shuhan-liu.com

September 2019

- Built personal website which has two major features: album and blog
- Created dynamic components inside the website using **JavaScript/jQuery**