

Computer Science | 4A

♠ ShuyiSunVANESSA

6 519-781-6299

⊠ s87sun@edu.uwaterloo.ca 🌴 shuyisunvanessa.github.io

SKILLS

Java, JavaScript, TypeScript, Python, C/C++, SOQL, HTML+CSS **Programming Development Tools**

Git, IntelliJ, Android Studio, Docker, DialogFlow, Salesforce API, Consul, Jira React, Redux, Bootstrap, Vue, Ionic, AngularJS, Spring, Numpy, Pandas, Flask

Database MySQL, DataGrip, MongoDB, Redis

WORK EXPERIENCE

Frameworks and Libraries

Loblaw Digital Toronto, ON

Software Developer

May 2019 - August 2018

- Created web app in JavaScript with Flask for an NLP project applying summarization and categorization functionality on customer feedback contained in a user uploaded csv file.
- Contributed in front-end project migration to ReactJS while reserving cross-platform interface consistency.
- Resolved error handling and form validation issues arising from interacting with Eigen (third party) payment service.
- Developed new features providing recommendation service for different types of customer with dynamic data.
- Implemented analytics tracking on buttons to obtain statistics for user interaction with the website.
- Built smart banner on web app, customized for different platforms and operating system(IOS and Android).

CI Technologies Inc. Vancouver, BC

Full Stack Developer

September 2018 - December 2018

- Implemented Java back-end with Hibernate for a web application providing criminal intelligence services, used by 800+ police stations for recording and analyzing criminal incidents.
- Designed and developed web pages in JavaScript with Vue/Vuex and Bootstraps, supporting form validation and data binding between the main page and the modal.
- Consolidated complicated branching instructions that spanned across 20+ classes and restructured into a single service class which control different flow of actions.
- Handled explicit edge cases which allow the program to fail gracefully when user misuses the application.

KiiMobile Technologies Inc.

Toronto, ON

Software Developer

January 2018 - April 2018

- Built natural language processor in Java for parsing and converting user input into query parameters in SOQL, retrieved data from MongoDB and implemented with MVC design pattern.
- Created multi-tenant web application for managing end users and metadata with multiple locale settings.
- Developed new features supporting multi-page output and consecutive queries for an automated email reminder service.
- Created front-end mobile app for automated online order placement system, implemented in Typescript with AngularJS 2, Ionic, and Bootstrap, used Postman for testing APIs request and responses.
- Designed AI model training set for a CRM program using Dialogflow (Api.ai) which helped parse utterance queries and match parameters in metadata.
- Achieved real-time language switch and displayed hierarchically-related data according to access levels of the user.

EDUCATION

University of Waterloo

Sept 2016 - Jan 2021 (Expected)

- Candidate for Bachelor of Computer Science (with Business Option)
- Related coursework: Object-oriented Programming, Data Structure and Data Management, Computer Organization and Design, Linear Algebra, Statistics, Algorithms, Database Management, User Interfaces
- Cumulative GPA: 81%

PROJECTS

Data Analysis on Titanic Data

Aug 2017

- Built data analysis project in Python with NumPy and Pandas to organize and retrieve statistical indicators.
- Achieved data visualization on various statistical graphs using Seaborn.
- Predicted future correlation between features and survival rate based on data read from statistical graphs.
- Applied feature engineering to drop unnecessary/bias features to avoid overfitting and underfitting