

Vanessa(Shuyi) Sun

Computer Science | 4B | University of Waterloo

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SKILLS

Programming Languages	Java, JavaScript, Python, TypeScript, C/C++, Kotlin, SQL, SOQL, HTML+CSS
Database	MySQL, DataGrip, MongoDB, Redis
Frameworks and Libraries	React, Redux, Bootstrap, Vue, Ionic, AngularJS, Spring, NumPy, Pandas, Flask
Development Tools	Git, IntelliJ, Visual Studio, Docker, DialogFlow, Salesforce API, Consul, Nginx

WORK EXPERIENCE

Loblaw Digital Software Developer	Toronto, ON May 2019 - August 2019
<ul style="list-style-type: none">○ Built web-application in JavaScript and Python with Flask that ingests and preprocesses customer comment, extracts important topics and selects prototypes for presentation to analysts, slashed time cost for analytics team by 30%.○ Increased sales and boost customer engagement 22% by implementing recommendation service fed with dynamic customer data for online grocery shopping web app.○ Resolved interaction issues between application's payment service and Eigen API, handled multiple layers of failures.○ Implemented smart banner on web app for downloading native app, drive 38% of the web traffic into app users.○ Enhanced cross-platform user experience by fully involved in migrating user interfaces to new components and virtual DOMs with React.	

CI Technologies Inc. Full Stack Developer	Vancouver, BC September 2018 - December 2018
<ul style="list-style-type: none">○ Implemented application back-end in Java and Hibernate to record criminal incidents, utilized by 800+ police stations.○ Designed and developed web modals in VueJS with Bootstraps, which supports form validation and data binding among multiple levels of modules, shared across more than 15 different pages in the web app.○ Restored the consistency across application for different flow of actions by consolidating complicated branching instructions that spanned across 16 modules.○ Solved data binding issues from dynamic database which can be applied to other database applications.	

KiiMobile Technologies Inc. Software Developer	Toronto, ON January 2018 - April 2018
<ul style="list-style-type: none">○ Built natural language processor in Java for processing input from subscribed users to our email service into query parameters in SOQL (Salesforce), retrieved data from MongoDB, boosted code efficiency by 35%.○ Centralized metadata and end users by creating a multi-tenant web application with multiple locale for management.○ Improved UI clarity and usability by adding new features to enable multi-page output and consecutive queries.○ Created front-end mobile app for automated online order placement system, implemented in Typescript with AngularJS 2, enabled real-time language switch using Ionic and Bootstrap, used Postman for testing APIs requests 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, boosted data parsing efficiency by 40%.	

EDUCATION

University of Waterloo	Sept 2016 - June 2021 (Expected)
<ul style="list-style-type: none">○ Candidate for Bachelor of Computer Science○ Related coursework: Object-oriented Programming, Data Structure and Data Management, Computer Organization and Design, Linear Algebra, Statistics, Algorithms and Complexity, Database Management, User Interfaces○ Cumulative GPA: 3.70	

Project

- Puppet: Created an android application in Kotlin which displays a 2-D puppet with 16 body parts and each part can be manipulated by screen touch (direct manipulation) through graphics transformation.
- Snake: Created a desktop application for a classic 2D video game, Snake game.
- DrawPad: Created an android application which implements a drawing panel. The panel contains a tool bar which provide tools for drawing and manipulating shapes, supporting different screen orientation.