

Shirley Wu

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Computer Science and Statistics, 4th Year

PROFILE SUMMARY

- 4 years' academic experience designing, implementing, and testing well-structured computer programs in multiple programming languages and at different scales
- Advanced understanding of Agile Project Management, developed through 1 year of Co-op experience working as a Software Engineer at Tasktop and realtor.com
- Demonstrated ability to thrive in a team environment and individually

EDUCATION

Bachelor of Science, Computer Science and Statistics (Combined Major)

Sept 2016 - Present

University of British Columbia (UBC) | Vancouver, BC (4th Year)

Expected Graduation Date: May 2021

TECHNICAL SKILLS

Programming/Query Languages:	Java, C, C++, SQL
Web Development:	JavaScript, TypeScript, HTML, Node.js
Tools/Environment:	Git, IntelliJ, WebStorm, Eclipse, Pentaho
Testing:	JUnit, Valgrind, Mocha, Chai
Applications:	R, MATLAB, Adobe Creative Suite

CO-OP EXPERIENCE

Software Engineer (Industry Data Operations)

realtor.com | Richmond, BC

May 2020 - Present

- Capture and transform large batches of feature-rich property data from 1000+ data sources into a normalized and flexible dataset
- Utilize data integration tools such as Pentaho to facilitate the ETL (Extract, Transform, Load) process
- Evaluate data quality against quality standards and resolve data issues through troubleshooting and making appropriate transformation changes.
- Participate in development planning meetings and work closely with other engineers and the product team to ensure listing data continuity of a variety of applications and websites, including realtor.com

Technologies: JavaScript | AWS | SQL | R | Tableau | Splunk | Pentaho | Postman

Junior Software Engineer

Tasktop | Vancouver, BC

Jan – Jun 2019

- Collaborated with a team to maintain repository connectors and gained a better understanding of Agile software development cycle through sprint planning, daily stand-ups, retrospectives, and code reviews
- Implemented new features such as folder synchronization between repositories and gave demonstrations to product owners and customer-facing team specifying use cases and any migration risks
- Acted as a build monitor, performed and discussed initial investigations for failed tests
- Added support for over 5 new versions of external software products, including creating docker images of the required testing environment and expanding internal documentation

Technologies: Java | Eclipse | Docker | JIRA | Agile | REST/SOAP API | MySQL | Jenkins

TECHNICAL PROJECTS

InsightUBC

Sept – Nov 2019

- Built a full stack web development project querying UBC courses and lecture rooms
- Read and parsed valid datasets using JSZip library and Node.js File System
- Programmed backend query engine to efficiently retrieve information from datasets
- Complemented backend with REST Server and Frontend UI, enabling project to be deployed and used as a Web application
- Used the Mocha Test Environment with Chai Expectations for testing

Technologies: TypeScript | JavaScript | HTML | CSS | JSON | Node.js | Mocha | Chai

SuperRent

Sept – Nov 2019

GitHub Repository: <https://github.com/shirleyyxw/SuperRent>

- Designed a database system for a car rental company to track transactions performed by both customers and employees, and to generate various rental/return reports
- Analyzed potential stored data, specified required transactions, and constructed an Entity-Relationship diagram (ER diagram) to visualize database schemas
- Implemented with embedded SQL in Java to retrieve data from the database using JDBC

Technologies: SQL | Java | JDBC | ER diagram | Oracle

Asteroids Game

Aug - Sept 2018

- Transformed a simple space invader game that was originally completed as a class assignment into Asteroids by modifying existing methods and refactoring
- Expanded movement methods to allow both player and invaders to move in all four directions
- Implemented 2D collision detection and added sound effects utilizing Java Sound API
- Wrote JUnit tests for debugging and testing newly added functionalities

Technologies: Java | JUnit | Swing | Java Sound

OTHER WORK EXPERIENCE

Math & Science Tutor

Jun 2017 – Jan 2019

Carlton College | Richmond, BC

- Tutored over 30 high school students in both one-on-one and small class settings
- Identified and modified course materials to meet students' needs and developed strategies to improve their academic performances

Registration Official

2017 City of Vancouver Municipal By-Election

Oct 2017

- Greeted more than 100 electors in a professional and friendly manner and performed elector strikeout online efficiently according to different scenarios
- Reviewed qualifications for registration through verifying acceptable IDs and registered new electors in electronic Voters' List