

ROSE XU

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SKILLS PROFILE

- Languages: proficiency in Java, Python, and JS/HTML/CSS; familiarity with Scala, C, Scheme, JSP, MySQL
- Tools and Frameworks: experience with git, bash, Solr, Grunt, Bower and Eclipse; full-stack web development experience with jQuery, Bootstrap, AngularJS, Backbone, Flask, Spring, Play!, MongoDB, and JUnit
- Excellent teamwork and time management skills developed through participation in multiple sports teams throughout high school and university as well as collaboration in various group hackathon projects
- Independent, driven, and a quick learner: learned new languages and concepts by enrolling and completing online courses offered by MITx and others; participated in 8 hackathons to date
- Familiar with Windows and Linux/Unix environment; fluent in English and Mandarin; working proficiency in French

EDUCATION

University of Waterloo 2014 – 2019[expected]

- Candidate for *Bachelor of Computer Science and Financial Management*; Cumulative Average: 91.4%; GPA: 4.0
- Activities and Societies: Varsity Ultimate Frisbee Team, Women in Computer Science Committee, Intramurals Scorekeeper/Referee

EMPLOYMENT HISTORY

Software Developer Co-op, Loblaw Digital 5/4/2015 — 8/28/2015

Toronto, ON

- Worked on full-stack, mobile-responsive web development on the Spring and Backbone framework for Loblaw's *Click and Collect* system; wrote code in Java, JSP, Javascript, and CSS/LESS using Agile methodologies
- Pushed 10+ changes to production including key new features such as a search bar to the "Getting Started" flow that saves users up to 3 seconds each time, a complete revamp of the "Store Locator" page and a new solr core implementation for searching recipes
- Worked extensively with Google Maps API and refactored front-end and back-end code for better structure and performance
- Participated in code reviews, communicated with business and external partner on the state of development and requirements, wrote unit tests and worked with the QA team to ensure code is production-ready

Intramurals Scorekeeper/Referee, UWaterloo Campus Recreation 9/15/2014 — 4/1/2015

Waterloo, ON

- Maintained team satisfaction through detailed tracking of all administrative tasks including checking rosters, keeping score, managing time, and communicating with the participating teams
- Resolved and prevented conflicts through careful management of the game and strictly enforcement of rules
- Ensured the safe running of the game and encouraged good sportsmanship

PROJECTS [GITHUB.COM/ROSEXU]

The Resistance (In Progress)

- Real-time mobile multiplayer web-based game that allows users to play the board game "The Resistance" without the physical board game
- Built REST API in Scala using the Play! framework with WebSocket to support real-time updates, AngularJS for front-end, and MongoDB for data storage as well as pub/sub system

SlangLang

- A Chrome extension that shows the user the definition of any word (slang and proper English) the user highlights in the Chrome browser. Download it here: <https://goo.gl/p14GWZ>
- Implemented in Javascript using jQuery; utilized concepts such as callbacks, ports, and message passing

Web Sight [MHacks Group Project]

- An app designed to help the blind browse the web by tracking finger movements using a Leap Motion and displaying them as five cursors on websites. Depending on which type of HTML elements each cursor hovers on, it sends different tactile to each finger through a special glove; placed in the top 30 out of 270 teams

Latex My Notes

- Built back-end for an mobile and web application that allows users to upload a picture of printed notes from their iPhone and automatically converts the text to a customizable latex format which is served as a PDF on our web application
- Integrated open-source OCR technology Tesseract to lift text off of images; Used Python with Flask framework and MongoDB to build REST API and manage files

University Match

- Developed an interactive program that takes user inputs and Maclean's University Report to create a tailored list of universities that best suits the student user
- Built with Java; designed multiple GUIs; implemented data retrieval and parsing from text files; invoked various sorting algorithms

More projects can be found on <https://github.com/rosexu> or <http://rose-xu.com/>

AWARDS

Dean's Honour List	(since Fall 2014)
Computing & Financial Management Entrance Scholarship	(September 2014)
AP Scholar (College Board)	(August 2014)
Bloomberg Aptitude Test (BAT) score in the 95 th percentile	(August 2014)
Joan Atwood Trophy for Female Athlete of the Year	(2013, 2014)
Scored in top 25% at Thornhill Debating Tournament	(October 2013)