ROSE XU

TECHNICAL SKILLS

Languages:

Proficient:

Java (3 years), Python (1.5 years), and JavaScript/HTML/CSS (2 years)

Familiar:

Scala, Ruby, C++, C, Scheme, JSP and MySQL

Tools and Frameworks:

Web development:

Backbone, Flask, Spring, Play!, Rails, jQuery, Jasmine, JUnit and Selenium *Other*: git, bash, Unix, MongoDB, Solr/Lucene

OTHER SKILLS

Excellent teamwork and time management skills developed through participation on Waterloo's varsity ultimate frisbee team and collaboration in various group hackathon projects. Independent, driven, and a quick learner: learned new languages and concepts by completing online courses offered by MITx and others; participated in 10+ hackathons.

EDUCATION

University of Waterloo 2014 – 2019

Computer Science and Combinatorics and Optimization double major Cumulative Average: 92.2%; GPA: 4.0 Clubs and Activities:

Varsity Ultimate Frisbee Team,

Intramurals Referee

AWARDS

Dean's Honour List (since Fall 2014) AP Scholar (College Board) (August 2014)

Joan Atwood Trophy for Female Athlete of the Year (2013, 2014)

INTERESTS

Academic: Functional Programming, Linguistics, Graph Theory Other: Ultimate Frisbee, Biking

WORK EXPERIENCE

Undergraduate Research Assistant, UWaterloo May 2016 – present

 Implementing SQL query rewrites in Common Lisp in the setting of ontology based data access captured by description logic

Software Engineering Intern, Inkling (San Francisco) Jan – Apr 2016

- Full-stack development on Habitat, Inkling's collaborative online authoring system, using JavaScript (ES6), Python, and Ruby
- Delivered an interactive widget prototype to work with a third party
 API in under half the amount of time given
- Iterated on the Inline Formatting Bar project by adding improvements, addressing bugs and writing comprehensive unit and integration test suites in Jasmine and Selenium
- Picked up Ruby on Rails and added custom logging utilities to monitor HTTP requests in 1.5 weeks

Software Developer Intern, Loblaw Digital (*Toronto*) May – Aug 2015

- 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 bug fixes and key new features to production including a search bar to the "Getting Started" flow, 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

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" online
- Built REST API in Scala using the Play! framework with WebSocket to support real-time updates, AngularJS, 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

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