ROSE XU

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TECHNICAL SKILLS

Languages:

Proficient in:

Java • Python • JavaScript • PHP

Experience with:

MySQL • Scala • C++ • Ruby • HTML CSS • Bash

Tools and Frameworks:

Web Frameworks:

Backbone, Flask, Spring, Play!

Other:

Git, MongoDB, Solr, Presto, Unit and Integration Testing tools

EDUCATION

University of Waterloo 2014 – 2019

Computer Science and **Combinatorics and Optimization** double major

Average: 92%; GPA: 4.0

Independent Coursework (Coursera):

Functional Prog. Principles in Scala

Machine Learning (current)

OTHER ENDEAVOURS

• Varsity ultimate frisbee team member

• Intramurals Basketball Referee

• Collaborated with teammates in 10+ hackathon projects

AWARDS

K.C. Lee Computer Science Scholarship (Nov 2016)

Dean's Honour List (since Fall 2014)

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

INTERESTS

Academic: Functional Programming, Natural Language Processing, Graph Theory, Linguistics

Other: Ultimate Frisbee, Biking, Hiking

WORK EXPERIENCE

Backend Engineering Intern, Slack (*San Francisco*)   Aug – Dec 2016

- Worked closely with the data team to design, build, and iterate on experiments that help Slack grow by moving core business metrics
- Built the infrastructure for batch sending emails in PHP and MySQL that has since been extended to send out over 4 million emails
- Owned the slackbot welcome post feature from technical design to development to iterating based on analytics and user feedback
- Collaborated with the mobile team to build the backend for Slack's first all-purpose push notification

Undergraduate Research Assistant, Waterloo   May – Aug 2016

- Implemented 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 Inkling's authoring product, *Habitat*, using JavaScript (ES6), Python, and Ruby
- Iterated on *Habitat*'s inline editing tool; wrote unit tests for every change pushed to production and improved test coverage
- Picked up Ruby on Rails and added custom logging utilities for monitoring HTTP requests to identify performance bottlenecks

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

- Java and JavaScript full-stack web development on the Spring and Backbone framework for Loblaw's *Click and Collect* system
- Launched key new features including a search bar to the "Getting Started" flow, a complete revamp of the "Store Locator" page and a new solr core schema for searching recipes
- Refactored front-end and back-end code to improve code quality and application 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 browser. Download it here: https://goo.gl/p14GWZ