RuoTai Sun

ruotaisun.com | github.com/rtsun95 | linkedin.com/in/rtsun | sunruotai95@gmail.com

Skills

Languages:	JavaScript, Python, C/C++, Scala, HTML, CSS	Tools/Services:	Git, npm, Mocha, Jira
Frameworks	React, Redux, Node, Flink, Kafka, Django	Languages spoken:	English, French, Mandarin

Work Experience

Jan 2018 - Present

Bloomberg | Software Engineering — *Apache Flink, Apache Kafka, Scala, C++*
- Working on a stream processing infrastructure providing real-time data to different clients.
- Participated to the research and design of a high throughput, low latency system.

May 2017 - Aug 2017

Bloomberg | Software Engineering — *JavaScript, Python, SQL*
- Contributed to automate and improve the performance of a NLP system using Active Learning.
- Built every layer (from back-end to UI) of an internal tool to annotate text documents used to train different entity extraction and entity linking models.
- Participated into the design and implementation of a SQL database for the whole system.

Sept 2016 - Dec 2016

InfoScout | Software Engineering — *ReactJS, Redux*
- Developed multiple React components synced with the Redux Store as core front-end features.
- Implemented list entries, file uploads, metric filters for a data analytics platform allowing users to perform complex data queries.
- Integrated web analytics to understand customers' needs and increase development efficiency.

Jan 2016 - Apr 2016

Autodesk | Software Developer — *CasperJs, Backbone, Node*
- Designed and built an open-source front-end testing framework (npmjs.com/package/damon).
- Implemented a new dashboard to run and display synced front-end tests to all developers.
- Wrote all the front-end tests for the website using Damon, improving testing speed by 75%.

June 2015 - Aug 2015

BuildDirect Design Center | Full-stack Developer — *Django, jQuery, Python*
- Enhanced room layout creation algorithm to generate more accurate results.
- Implemented a pdf package generator (downloaded 5000+ times) using ReportLab.
- Integrated Google Analytics events tracking system to better understand user's work flow.

Projects

Mar 2015

Roomi @ Waterloo EngHack | Second place — *AngularJS, Meteor*
- Webapp that provides useful tools for roommates such as bill splitter, to do list and messenger.
- Created an instant messenger feature using AngularJS and Meteor.

Mar 2015

CommuniVoice @ HackIllinois | Yelp best Community Hack prize — *AngularJS, Azure, Android*
- Android and web app that allows citizens to effortlessly report issues to their city.
- Worked on integrating the Google Maps API on the webapp and on the back-end with Azure.

Feb 2015 - Feb 2016

Tech Retreat | Co-Founder and Organizer
- Founded and organized Canada's first hackathon/learnathon for high school students.
- Managed the finances and planned the budget of the event with over 150 participants.
- Worked on contacting sponsors to make the event entirely free for students.
- Handled the applicants' selection process from a pool of more than 400 applicants.

Education

Candidate for Bachelor of Computer Science, University of Waterloo (graduation in 2019)
Introduction to Machine Learning, Udacity(Online)

Activities and Interests

Photography, travel, hiking, board games, rock climbing