



ROBERT XU

SOFTWARE DEVELOPER

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SKILL SET

Languages

Java, ES6, Ruby,
C/C++, SQL

Frameworks

Rails 5, React,
Redux, Express

Tools/Tech

Docker, NodeJS,
AWS, mySQL,
Git, Elasticsearch

Markup/Data

HTML5, CSS3,
Markdown,
JSON, YAML

Design

Premiere Pro,
Illustrator,
After Effects

EXPERIENCE

Fullstack Web Developer

Jewlr | Toronto, April 2017 - Aug. 2017

- Built CMS to manage and catalogue product, sales data with Rails, React, Redux. Deployed with Docker, AWS EC2 - includes admin privileges, API for data import (increased import speeds by 50%) and a custom search engine
- Implemented state machine to increase manufacturing process speeds by 75% and created production analytics using Rails, ES6

Embedded Systems Engineer

Waterloop | Sept. 2016 - present

- Worked with Arduino and Java in creating a functional drive train system and user interface for Waterloo's SpaceX Hyperloop team

Certified Java SE 8 Programmer



Oracle | Aug. 2016

- Received Oracle Java SE 8 certification by demonstrating experience working with Java platforms and technologies

Research Assistant

MIT | May 2015 - Aug. 2015

- Enhanced python-based, pattern recognition program that predicts synthesis of novel materials using data from materials science papers
- Encoded > 100 materials science papers into python dictionaries that formed a directed graph and tested code with Travis CI

Marketing Director

Science Expo | Aug. 2014 - June 2015

- Built website infrastructure and design
- Led national marketing team, organized annual conference at the Ontario Science Centre
- Deployed monthly newsletter - maintained mailing list of > 1000 subscribers

Assistant Director of Technology

TEDxRichmondHill | Sept. 2013 - May 2014

- Maintained website infrastructure and database of conference attendees
- Designed animation intro using After Effects

PROJECTS

Dashboard | Aug. 2017

- Building team collaboration web-app with Rails, React, Redux that allows users to join a team/create personal dashboard featuring tasks, resources, reminders, etc.

Internet Thoughts | YaleHacks →

- Used Node.js, Twitter API to build a sentiment analysis web-engine that returns how positive or negative the internet thinks about a topic
- Fed machine learning algorithm with text corpus data

Speakr | Hack the Valley →

- Built android app for speech improvement that analyses speech data (speed, filler words, etc.) in real time and presents data graphically using Java, Microsoft Azure API (cognition services)

EmployHer | BreakInequality@Google →

- Built job listings website that allows users to post listings directly from SMS text using Twilio API, Node.js, Firebase

AWARDS

- DECA Internationals Qualifier, Entrepreneurship Category | May 2015

- Bronze Medal, Canada Wide Science Fair | May 2014

EDUCATION

- B.S.E. Software Engineering, University of Waterloo | 2016 - 2021

- Received Retiree's Scholarship, President's Scholarship of Distinction