ROBERT XU

SOFTWARE DEVELOPER

647 983 1888
rx@robxu.me

robxu.me   /robertycxu   /robert-xu

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 speed 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