



ROBERT XU

SOFTWARE DEVELOPER

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SKILL SET

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|--|---|---|--|---|
| • Languages
Java, ES6, Ruby, C/C++ | • Frameworks
Rails 5, React, Redux, Express | • DevOps
Docker, Vagrant, Kubernetes, AWS | • Tools/Tech
NodeJS, mySQL, Git, Elasticsearch | • Markup/Data
HTML5, CSS3, JSON, YAML |
|--|---|---|--|---|

EXPERIENCE

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|--|---|
| • Fullstack Web Developer
Jewlr Toronto, April 2017 - Aug. 2017 <ul style="list-style-type: none">- 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 | • Research Assistant
MIT May 2015 - Aug. 2015 <ul style="list-style-type: none">- 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 |
| • Embedded Systems Engineer
Waterloop Sept. 2016 - present <ul style="list-style-type: none">- Worked with Arduino and Java in creating a functional drive train system and user interface for Waterloo's SpaceX Hyperloop team | • Marketing Director
Science Expo Aug. 2014 - June 2015 <ul style="list-style-type: none">- 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 |
| • Certified Java SE 8 Programmer 
Oracle Aug. 2016 <ul style="list-style-type: none">- Received Oracle Java SE 8 certification by demonstrating experience working with Java platforms and technologies | • Assistant Director of Technology
TEDxRichmondHill Sept. 2013 - May 2014 <ul style="list-style-type: none">- Maintained website infrastructure and database of conference attendees- Designed animation intro using After Effects |

PROJECTS

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| • Dashboard Aug. 2017 <ul style="list-style-type: none">- Building team collaboration web-app with Rails, React, Redux that allows users to join a team/create personal dashboard featuring tasks, resources, reminders, etc. | • Speakr Hack the Valley → <ul style="list-style-type: none">- 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) |
| • Internet Thoughts YaleHacks → <ul style="list-style-type: none">- 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 | • EmployHer BreakInequality@Google → <ul style="list-style-type: none">- 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