






ROBERT XU

SOFTWARE DEVELOPER

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SKILL SET

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

- **Full-Stack Developer | Jewlr, Toronto (1B Co-op)** *Apr 2017 - Aug 2017*
 - Built **CMS** to manage and centralize product, sales data with Rails, React, and deployed with Docker, Quay, Rancher, Capistrano, AWS EC2. Includes **admin authentication and privileges**, **Redux state management** for loading and saving product data, and a custom **search engine**
 - Created **API for data exposure** using ActiveRecord Serializers and a corresponding rake task for data import, **increasing import speeds by 50%** and supporting company expansion into the EU and UK
 - Implemented state machine to **increase production process speeds by 75%** and created production data tracking and analytics
 - Built and A/B tested new payments layout and auto form completion with Google's GeoCoding API, from analyzing granular data collected with Google Analytics, **increasing user conversion rates by 6%**
- **Web Developer/Designer | Medmodo, Toronto** *Jul 2016 - Aug 2016*
 - Maintained and developed company website using JavaScript, jQuery, Bootstrap, migrated user data into mySQL database, implemented **user authentication** with Rails
 - Led a team of designers and marketers and carried out company rebranding onto the website, **increasing beta users by 200%**
- **Research Assistant | MIT, Remote** *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

PROJECTS

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| • Dashboard Aug 2017 <ul style="list-style-type: none">- Built team collaboration web-app with Rails, React, Redux that allows users to join a team or create a personal dashboard featuring tasks, resources, reminders, etc. | • Speakr Hack the Valley 2017 <ul style="list-style-type: none">- Built android app for speech improvement that analyzes speech data (speed, filler words, etc.) in real time and presents data graphically using Java, Microsoft Azure API (cognition services) |
| • Internet Thoughts YHack 2016 <ul style="list-style-type: none">- Used NodeJS, Twitter API to build a sentiment analysis web-engine that returns how positive or negative the internet thinks about a topic- Fed NLP algorithm with text corpus data to return percentage positivity and negativity associated with user posts | • EmployHer BreakInequality@Google 2016 <ul style="list-style-type: none">- Built job listings website that allows users to post listings directly from SMS text using Twilio API, NodeJS, Firebase |

AWARDS/CERTIFICATIONS

- **Certified Oracle Java SE 8 Programmer** | Aug 2016 
- **DECA Internationals Finalist, Entrepreneurship Category** | May 2016

EDUCATION

- **B.S.E. Software Engineering, University of Waterloo** | 2016 - 2021, sophomore year
 - Received President's Scholarship of Distinction and Retiree's Scholarship