



# ROBERT XU

SOFTWARE DEVELOPER

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## SKILL SET

- **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

## EXPERIENCE

- **Full-Stack Developer | Jewlr, Toronto** *Apr 2017 - Aug 2017*
  - Built **Content Management System** to 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

- **Dashboard | Aug 2017**
  - 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.
- **Internet Thoughts | YHack 2016**
  - 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
- **Speakr | Hack the Valley 2017**
  - 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)
- **EmployHer | BreakInequality@Google 2016**
  - 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