ROBERT XU
SOFTWARE DEVELOPER

647 983 1888
rx@robxu.me

robxu.me   /robertycxu   /robert-xu

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 ActiveModel 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 | Medmodo, Toronto   *Jul 2016 - Aug 2016*

- Implemented user authentication with Rails and ported user data into anaytics web app, creating symptom tracker for each user. **Increased beta users by 200%** through rebranding efforts
- Worked with doctors to implement symptom checker through using machine-learning statistical models built from established healthcare data – applied models to user provided data

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