647 983 1888 rx@robxu.me

robxu.me

/robertycxu

/robert-xu

SKILL SET

Languages

Java, JavaScript, C/C++, Python

Tech

Node.is, Express. MongoDB, mySQL, Linux

Tools

Bash Scripting, Git. Vim

Markup

HTML5. CSS3. Markdown

Design

Premiere Pro. Illustrator. After Effects

EXPERIENCE

Web Developer →

robxu.me | Dec. 2016 - present

- Built personal site featuring UX design, JS animations, using Bootstrap, jQuery, Paper.js

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



- Received Oracle Java SE 8 certification by demonstrating experience working with Java platforms and technologies

Web Developer/Designer

Medmodo | Aug. 2015

- Maintained and developed company website using PHP, HTML, CSS
- Designed promotional graphics with Illustrator, increased user base by 200%

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

- Internet Thoughts | Dec. 2016 →
 - 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

Shooter Pong | Aug. 2016 →

- Designed game of Pong on the browser with AI, scaling difficulty, scores using Paper.js for animation and Howler is for in-game sounds
- Implemented jQuery, Bootstrap, CSS for the frontend, JavaScript for the backend (AI, DOM manipulation)

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