ROBERT XU

UWATERLOO
SOFTWARE ENGINEERING 1A

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SKILL SET

Languages
Java, JavaScript, C/C++, Python

Tech
NodeJS, Express, MongoDB, mySQL

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 responsive, UX design, JS animations/sounds

Embedded Systems Engineer
Waterloop | Sept. 2016 - present

- Working 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
Oracle | Aug. 2016

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

Research Assistant
MIT | May 2016 - Aug. 2016

- Enhanced python-based pattern recognition neural network that predicts synthesis of novel materials using data from materals science papers

Web Developer/Marketing Intern
Medmodo | Aug. 2015

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

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 2013

- Maintained website infrastructure and database of conference attendees

PROJECTS

EmployHer | Dec. 2016

- Built job listings webservice that allows users to post listings straight from SMS text using Twilio API, NodeJS, Firebase

Internet Thoughts | Nov. 2016

- Used Node.js, Express, and Twitter, Reddit, Tumblr API requests to build a sentiment analysis web-engine that returns how positively or negatively the internet thinks about a topic

Shooter Pong | Aug. 2016

- Designed game of Pong on the browser with AI, scaling difficulty, scores
- Used Paper.js for animation and Howler.js for in-game sounds

EWaste 3D Printer | June 2016

- Built 3D printer from scratch using recycled CD roms and Arduino as president of Bayview S.S Engineering Club

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

- Recieved Retiree's Scholarship, President's Scholarship of Distinction for 95+ average