

In celina-tang

Languages & Tools _____

Languages C / C++, JavaScript, Java, Python, Groovy, Scala, HTML / CSS Frameworks & Tools React, Flask, Spring, Maven, Selenium, OpenCV, Git, Bash

Experience ______

Veeva Systems

SOFTWARE ENGINEER Jan 2018 - Apr 2018

- Performed optical character recognition and table extraction methods to obtain 75,000+ records from scanned PDFs
- Sanitized raw data with an ETL pipeline and utilized fuzzy matching techniques to achieve a 90% match rate with internal databases
- Automated data collection of over 50 sites with Selenium scripts
- Trained OpenCV HAAR cascade classifiers for facial detection of 100,000+ image datasets
- Created interactive Selenium UI and integration tests for Spring web application

Accedo Toronto, ON

MULTI-PLATFORM DEVELOPER May 2017 - Sep 2017

- Developed UI for playlist playback with skipping, replay, and fast-forward functionalities
- Enhanced user login system to incorporate personalized features such as curated playlists
- Refactored API structure to reduce redundant calls and provide extended access to premium user accounts

Quanser Consultant Inc. Markham, ON

SOFTWARE DEVELOPER Jul 2015 - Aug 2015

- · Incorporated dead reckoning with positional information from SPI encoders and gyroscope calculations to track robot movement
- Developed an object tracking system by analyzing RGB data obtained from the Xbox360 Kinect
- · Constructed dynamic depth map of robot's immediate surroundings through analysis of infrared ray casts

Projects _

RaspyMusic

PYTHON & RASPBERRY PI

- · Created a home music web application hosted on a Raspberry Pi with a Flask backend for song submissions
- Used Raspberry Pi's GPIO for song playback

WLP4 Compiler

SCALA & MIPS ASSEMBLY

- Compiled WLP4 language into MIPS machine code with LR(1) parser
- Detected syntax, semantic, and lexicographic errors with context-sensitive analysis
- Supported nested functions, pointer allocation, linkers and loaders, and automatic garbage collection

Extracurricular Activity _____

FIRST Robotics Team 4001

TEAM CAPTAIN & LEAD PROGRAMMER

BACHELOR OF SOFTWARE ENGINEERING

Sep 2012 - Jun 2016

- Led a team of 85 members to win FIRST Robotics Competition Toronto Regional and placed top 10 in the World Championship
- Improved robot performance by over 40% through an automated control program with Proportional Integral Derivative control
- · Received Engineering Inspiration, Creativity, and Industrial Design Awards for innovative robot design

Education

University of Waterloo