Danial Mohazab

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Skills

- Programming Languages: Python, Java, C++, C, HTML/CSS, and MATLAB

- Tools/Frameworks: Spring, TensorFlow, Keras, Flask, Git, Android Studio, JIRA, and Selenium

Work Experience

OANDA Corporation   Toronto, Ontario
Software Development Intern   Jan. 2019 - Apr. 2019

- Developed a RESTful microservice-based server in Java using Spring that provides OANDA trading platforms with Dow Jones news articles

- Implemented filtering functionality to the OANDA news service in Java to improve customizability and allow users to custom curate their news feeds

- Created a feature in Java that applies user triggered threading to update stock units available in real-time for OANDA's desktop trading platform

- Refactored rate chart endpoints to reduce stock rate data loadtime on trading platforms by 62%

Home Trust Company   Toronto, Ontario
Software Development and QA Intern   Apr. 2018 - Aug. 2018

- Developed a machine learning model using Tensorflow and Keras in Python that predicts mortgage application funding likelihood at 97% accuracy to streamline loan filtering

- Constructed the front-end and server-side framework of an internal attendance tracking web app using Python, Flask, and HTML/CSS that replaced the old paper-based company model

- Created automation scripts using Python and Selenium for an agile website redesign project, reducing production launch time by 42%

Projects

RobotC-Major
C++

- Developed the controls of a guitar playing robot with the Lego EV3, Tetrix and NXT systems

- Implemented an earliest deadline first priority scheduling algorithm to control motor tasks

- Multithreaded motor encoder methods to calibrate mechanical mechanisms after song termination

- Used polling to allow for users to select multiple songs and tempo options with a custom UI

SiteSpider
Python - Selenium

- Developed a script that crawls webpages to test form functionality and conduct content verification

- Implemented a queue data structure using sets to eliminate repetitive screening of common links

- Used multithreading to concurrently run instances, optimizing execution efficiency of scripts

AutoBalance
Java - Android SDK

- Designed an application that organizes branch closing procedure for Scotiabank bank tellers

- Consolidated user inputted treasury data using currency classes to increase cash counting efficiency

Education

Candidate for B. ASc. in Mechatronics Engineering   University of Waterloo 2017 - 2022