

William Ryder

INFORMATICS GRADUATE - SOFTWARE ENGINEER INTERN

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Introduction

I am a UCI Informatics graduate from Oceanside and currently an intern for Multitaskr, a San Diego based startup. I love to problem solve and I am always eager to learn. I am seeking roles that will allow me to continue to grow and expand my coding knowledge and skills. I have experience writing in Python, Java, and JavaScript but will never shy away from learning something new.

Current Position

Multitaskr

San Diego, California

SOFTWARE ENGINEER INTERN

July 2021 - Present

- Multitaskr is a continuously expanding startup in the construction technology space. I work directly under the Chief of Operations.
- I lead the development of an internal tool that estimates the cost of a construction project by pulling construction tasks from a database that contains unit costs.
- I aid various departments by developing specialized internal tools from their requirements using JavaScript and Google Apps Script.
- I wrote JavaScript functions in order to automate the process of estimating the amount of lumber required for framing a construction build.

Projects

Tissue Annotation Webapp for Leica Biosystems

WEBAPP MADE FOR LEICA THAT WOULD TAKE AN IMAGE OF TISSUE SAMPLE AND ANNOTATE IT USING A NEURAL NETWORK

- Led the team in building a Flask (Python) back end to build our webapp on.
- Created API calls using routes to send JSON data to the Python back end.
- Implemented the Bokeh data visualization library for Python to create an interactive graph to display our data.
- Programmed custom tools for Bokeh using JavaScript.
- Parsed the XML file output of the neural network for coordinates to create the outlines for each contour outline.
- Neural network integration to create contours based on a trained model provided by Leica.

Discord Stock Bot

SELENIUM AND WEB AUTOMATION

- A chat bot that on the event of being sent a valid stock ticker, sends an image of the current price and graph of the stock.
- Implemented using the Discord API and Selenium for Python.
- After checking if the ticker is valid the script uses Selenium to open the Market Watch page in Google Chrome and screenshots the page.
- The script then uses Selenium functions to crop the image to only include the important stock information. The bot then sends the image in the Discord chat room.

RoboCash iOS Application

UI DESIGN AND API INTEGRATION

- Application development for a startup called RoboCash.
- I designed UI mockups from the sponsor's requirements using Figma.
- Employed Xcode to recreate UI mockups for an iOS application.
- Integrated sponsor's backend and API calls for the application.

Education

University of California: Irvine

Irvine, California

B.S. IN INFORMATICS

Sept. 2016 - Jun. 2020

- Spence Reese Scholarship recipient

Skills

Programming Python, Java, JavaScript

Testing Selenium, JUnit, PyUnit

Back-end Flask, Django

Applications and Tools SQL, Git, Android Studio, Figma, Adobe Photoshop, Sony Vegas