

# William Ryder

INFORMATICS GRADUATE - JUNIOR DEVOPS ENGINEER

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## Introduction

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I am a UCI Informatics graduate from Oceanside and currently an Junior DevOps Engineer 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

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### Multitaskr

San Diego, California

JUNIOR DEVOPS ENGINEER

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

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### 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

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### University of California: Irvine

Irvine, California

B.S. IN INFORMATICS

Sept. 2016 - Jun. 2020

- Spence Reese Scholarship recipient

## Skills

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**Programming** Python, Java, JavaScript

**Testing** Selenium, JUnit, PyUnit

**Back-end** Flask, Django

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