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♥ Technical Skills Summary

Languages: Python, C++, Java, JavaScript, PostgreSQL, R, HTML/CSS, bash

Frameworks: Django, Flask, React, Node.JS

Tools/Libraries: Git, JIRA, Docker, Jenkins, Linux/MacOS CL, Pandas, numPy, MatPlotLib, SciKitLearn

□ Experience

Bioinformatics Developer

Aug. 2020 - Dec. 2020

Toronto, CA

Ontario Institute for Cancer Research

- > Updated and integrated a REST API in node.js to mark files for data release approval in the pipeline, increasing volume and efficiency 300%
- > Created a COVID-19 workflow to analyze sequenced data while creating a json metrics file, graphs, charts and a pdf report in Python. Reduced time-to-completion by 5 hours
- > Designed and produced various Python, R and bash programs to upgrade and re-implement proprietary legacy code, leading to operation times cut by 50% and a 25% reduced codebase
- > Worked with AGILE, created documentation, reports/tickets in JIRA, Jenkins tests and deployed 7 projects

Bioinformatics Programmer

Jan. 2020 - Apr. 2020

Ontario Institute for Cancer Research

Toronto, CA

- > Integrated various programs and software together to run in a workflow using wdl, helping increase the speed of the pipeline by 70%
- > Installed software in docker containers so collaborators around the world can replicate cancer research
- > Created and modified R, Python and Bash scripts to create metrics data from cancer data files. Reported data to 4 new dashboards and increased the rate of analysis by 50%

△ Projects

Cryptobase

Python, Flask, CRUD db, sqLite3

- > Created a website to store user's cryptocurrency portfolios with a full user signup, login and verification system using sqLite3 relational databases
- > Integrated a full jinja2 user interface using HTML, CSS and JS

Mood to Song

Python, Pandas, Image Proccessing, sqLite3

- > Implementing the Spotify API for getting track suggestions and metadata based on the mood of the user
- > Leverged image proccessing to get the 5 most common colours in the album art and display them with the results

Purchase Analyzer

Python, Pandas, Numpy, SciKitLearn, sqLite3, MatPlotLib

- > A Python program that analyzes credit card purchases and stores data in a sqlLite3 db using a pandas dataframe
- > Uses a natural language processing engine to determine which category the purchase falls into by web-scraping the description of the merchant

COVID-19 API & Visualizer

Flask, Python, Pandas, sqLite3, MatPlotLib

- > Web-scraping csv files from the government websites and storing them in a database
- > Using flask to create an API which reports back 16 data-fields and can be constrained by date

Education

University of Waterloo

2019 - 2024

Waterloo, CA

BaSc in Honours Computer Engineering, Coop

> Term GPA: 3.9