Rishi Shah
Software Developer

📞 416-996-6279
✉ rishi.shah@uwaterloo.ca

in /rishishah2001
○ /rishi-shah12
⊕ rishishah.ca

⚙ 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
Ontario Institute for Cancer Research   Aug. 2020 – Dec. 2020
                                                                 Toronto, CA

> 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

> Adeptly worked in an AGILE team, while creating documentations, bug reports & tickets in JIRA, Jenkins tests and deployed 7 different projects to production

Bioinformatics Programmer
Ontario Institute for Cancer Research   Jan. 2020 – Apr. 2020
                                                                 Toronto, CA

> Integrated various programs and software together to run in a workflow using wdl, helping increase the speed of the pipeline by 70%

> Worked on installing software in docker containers so that 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

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

> Leverages matplotlib/plotly for charts, graphs & a map of the transaction locations using an API

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

Finance Blog
Django, Python, JavaScript, HTML/CSS, sqLite3

> A django project to inform university and college students about personal finance and investing

Personal Website
Django, Python, JavaScript, HTML/CSS, sqLite3

> A website to highlight my work and experience written in django as back-end and HTML/CSS as front-end

🎓 Education

University of Waterloo
BaSc in Honours Computer Engineering, Coop   2019 – 2024
                                                                 Waterloo, CA

> Term GPA: 3.9

> Notable Courses: Algorithms and Data Structures, Fundamentals of Programming, Speech & Communication