

RICKY ZHANG

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Education	<p>UNIVERSITY OF TORONTO, ST. GEORGE CAMPUS Toronto, ON 3rd year undergraduate student in Computer Science and in Neuroscience 3.9 cGPA and 2x Dean's List Scholar. Relevant Coursework: Software Design, Data Structures and Algorithms, Digital Logic. Currently taking Programming on the Web, Software Tools and Systems Programming, Introduction to Machine Learning and Introduction to Databases.</p>
Skills	<p>JavaScript – React, React Native, NextJS, Tailwind, Bootstrap Java – OOP, Swing UI, RestAPI, Junit5 R – Shiny, tidyverse, dplyr, tidyr, stringr, lubricate, ggplot2, openxlsx Python – Numpy, pandas, matplotlib, scikit-learn Other Skills: CSS, HTML, Git, Testing, PostgreSQL, Swift, Linux, Bash, Data Visualization, Relational Databases, Ruby Languages: English, French</p>
Experience	<p>RESERVOLOGIX CORP., CALGARY, AB</p> <p>Data Scientist/Intern May 2023 – August 2023</p> <ul style="list-style-type: none">Started as Data Analyst intern, and subsequently promoted to data scientist after one week.Generate an R based data analysis pipeline to streamline data analysis processes of large clinical datasets to identify patterns, and insights on biomarker search driven by small molecular therapy. The pipeline includes data mining, cleaning and statistical analysis using R and Python.Build RShiny applications for statistical data analysis of big omic datasets (e.g. proteomics data of clinical samples, RNAseq data of experimental samples)Collaborate with scientists, clinicians and business development teams to identify data-driven opportunities.
Projects	<p>Big Omic Data Analysis and Biomarker Discovery – Resverlogix Corp. (Calgary, AB), May 2023 – August 2023 Created multiple RShiny applications that allows scientists to perform statistical analysis and to explore biomarker discoveries on large omic data sets derived from experimental and clinical data.</p> <p>Imaging data analysis – Resverlogix Corp. June 2023- August 2023 Adapted an image analysis program from GitHub to analyze immunofluorescent data for quantification of cellular markers of interest and their relationship i.e., colocalization.</p> <p>NoteTakeApp – Personal Project December 2023 Using Swift and UIDocument Framework, created an app that allows for creating and saving commented .pdf and .pptx files. Also allows for easy creation of blank slides.</p> <p>Song Trivia Quiz– School Project September 2023 - December 2023 Collaborate with peers to create a Song Trivia Game in Java and Spotify API to collect data using Clean Architecture, SOLID Principles and Design Patterns.</p>
Extracurriculars	<p>Play and teach piano to kids with MMCO (Musical Minds Community Outreach) Participate and compete in Taekwondo with UTTO</p>