# RICKY ZHANG

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| **Education** | **UNIVERSITY OF TORONTO, ST. GEORGE CAMPUS**<br>**Toronto, ON | 3rd year undergraduate student in Computer Science and in Neuroscience**<br>Currently hold a 3.9 cGPA and completed CS courses including Software Design, Data Structures and Algorithms, and Digital Logic. Furthermore, currently taking Software Design, Software Tools and Systems Programming, Programming on the Web, Introduction to Machine Learning and Introduction to Databases. |
| **Skills & abilities** | **Python** -- Numpy, pandas, matplotlib, scikit-learn<br>**JavaScript** – React, NextJS, Tailwind, Bootstrap<br>**Java** –OOP, Swing UI, RestAPI, SOLID, Clean Architecture<br>**R** – Shiny, tidyverse, dplyr, tidyr, stringr, lubricate, ggplot2, openxlsx<br>**Other Skills**: CSS, HTML, Git<br>**Languages**: English, French |
| **Experience** | **RESERVOLGIX CORP., CALGARY, AB**<br><br>**Data Scientist/Intern | May 2023 – August 2023**<br><br>• Started as Data Analyst intern, and subsequently promoted to data scientist after one week.<br>• 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.<br>• Build RShiny applications for statistical data analysis of big omic datasets (e.g. proteomics data of clinical samples, RNAseq data of experimental samples).<br>• Collaborate with scientists, clinicians and business development teams to identify data-driven opportunities. |
| **Projects** | Big Omic Data Analysis and Biomarker Discovery – *Resverlogix Corp. (Calgary, AB)*<br>*May 2023 – August 2023*<br>Created multiple RShiny applications that allows scientists to perform statistical analysis and to explore biomarker discovery on large omic datasets derived from experimental and clinical data.<br>Imaging data analysis – *Resverlogix Corp.*    *June 2023 - August 2023*<br>Adapted an image analysis program from GitHub to analyze immunofluorescent data for quantification of cellular markers of interest and their relationship i.e., colocalization.<br>Microtransaction Optimizer -- *Personal Project*    September 2023 - Present<br>Used backtracking to optimize microtransactions made in Valorant. I intend to generalize it for all games as well as optimize my algorithm for this task.<br>Song Guessing Game – *School Project*    September 2023 - Present<br>Create a multiplayer song guessing game using users most frequently played songs on Spotify. Designed with SOLID and CA Engine in mind. |
| **Activities** | Club member of MMCO (Musical Minds Community Outreach) – Teach Piano lessons to kids.<br>Club member of UTTO – Participate and Compete in Taekwondo |