

# YUKTHI WICKRAMARACHCHI

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## EXPERIENCE

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### Deep Genomics

*Software Engineer Intern*

Toronto, Ontario

May 2023 - June 2024

- Developed R package for application of novel statistical testing framework.
- Conducted exploratory data analysis of 2504 whole genome dataset from the 100 Genomes Project datase
- Responsible for managing workflows on Google Cloud Platform, including setting up the container environment using Dockerfiles.

### The Hospital for Sick Children

*Statistical Genetics Research Intern*

Toronto, Ontario

August 2022 - May 2023

- Developed Python package for pipelining of gene therapy design workflows.
- Implemented backend REST API for new molecule registration.
- Expanded featureset of model inference package used for RNA expression prediction.
- Integrated new software platform with existing backend.

## PROJECTS

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### ePlant Gene Visualization Tool *Typescript, React*

<https://bioanalyticresource.github.io/ePlant/>

A tool developed for researchers which offers visualizations of over 30 genes expressed in Arabdopsis.

## EDUCATION

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### University of Toronto

MSc Applied Computing

Toronto, Ontario

Sep 2024 - December 2025

Focusing on AI and Machine Learning methods.

### University of Toronto

Computer Science and Statistics *GPA: 3.77*

Toronto, Ontario

May 2021 - April 2023

Coursework including upper year courses in algorithms, operating systems, machine learning and statistical methods.

### Queen's University

BScH Life Sciences *GPA: 3.67*

Kingston, Ontario

Sep 2016 - April 2020

## SKILLS

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Languages: Python, C, Java, Typescript  
Technologies: Pytorch, Pandas, PostgreSQL, React, Git