

Shane Ghosh

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EDUCATION

Webber Academy

Student

Calgary, AB

Aug. 2020 – Present

ACHIEVEMENTS

Bronze Medal at the Calgary Youth Science Fair

Calgary Youth Science Fair

April 2022

Ranked 7th provincially at Caribou Mathematics Contest

Caribou Contests

June 2021

Judges Award

FIRST Robotics Canada

May 2021

EXPERIENCE

Research Associate

University of Calgary

September 2022 – Present

Calgary, AB

- In the process of analyzing samples of squamous cell carcinoma through a R-Programmed pipeline.
- In charge of development of pipeline methodology
- Explored ways to make project public knowledge through using GitHub

Full Stack Developer

Innovention Technologies

April 2022 – Present

Calgary, AB

- Developed an on-boarding system with React Native
- Development of web app and maintenance of mobile app
- In charge of making executive decisions on product development at keystone meetings

Research Associate

University of Calgary

July 2021 – September 2022

Calgary, AB

- Created a project titled *Identifying Shared Pathways & Biomarkers of Multiple Cancers Through a Stabilized Bootstrapped SCOPE Pipeline*
- Developed machine learning pipeline based on prior work done at Zhang Labs
- Used R and Slurm to create project as a modular project.
- Used University of Calgary ARC System in order to complete computational analysis

PROJECTS

SCOPE Cancer Research Project | R, Slurm, Linux

June 2021 – September 2022

- Developed a Bootstrapped pipeline to analyse the similarities among and within cancers.
- Used R programming language to fully automate pipeline

Analysis of CDC Influenza Database for Vaccination Trends | R

February 2022 – May 2022

- Used vaccine data from the CDC to identify trends within racial and geographic groups
- Used R in order to determine the statistical significance of our findings

Black-Jack | C++

April 2022 – May 2022

- Created a Black-Jack game using C++

TECHNICAL SKILLS

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

Frameworks: React, Node.js, ReactNativeWeb

Developer Tools: Git, VS Code, Visual Studio, Excel, Qt-Creator, Eclipse, Word

Libraries: dplyr, ggplot, Matplotlib