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SOFTWARE ENGINEERING . GAME PROGRAMMING

# Work Experience\_\_\_\_\_

### **Centre for Addiction and Mental Health**

NEUROIMAGING RESEARCH ANALYST (PYTHON, MATLAB, R)

May 2019 - August 2019

- Implemented imaging preprocessing pipelines for a diverse group of neuroscience researchers, efficiently preparing data for 6 unique studies totalling **over 500 subjects.**
- Redesigned large projects in the neuroscience community including **dmriprep** and **Nipype**, and created tractography pipeline tractify to decrease nerve tract image generation time for patients from an **hour to 15 minutes**.

#### Geosoft Inc.

AUTOMATED TEST ENGINEER (C#, RANOREX, RUBY)

January 2018 - August 2018

- Tested main product Oasis montaj through Ranorex by managing over 1000 tests for each release and reporting results, decreasing the **average failure rate for each build by 30%**.
- Presented results in weekly meetings, communicating with coworkers in other departments to boost understanding of automated testing.

### Education

### **University of Toronto**

HBSc Specialist in Software Engineering, GPA 3.7/4.0

September 2016 - April 2020

- · Studied Algorithm Design and Analysis, Operating Systems, Artificial Intelligence, Computer Graphics, and Machine Learning.
- Awards: Dean's List 2016-2020, UofT Entrance Scolarship.

## **Projects**

#### **Balloonatics**

GAME DEVELOPMENT (GAMEMAKER: STUDIO, UNITY, C++)

September 2019 - present

• Developing an action platformer, using **physics, animation, and mathematics** to solve programming challenges including seamless level looping, while also iteratively improving game feel and always keeping the user experience in mind.

### **Ray Tracer**

COMPUTER GRAPHICS, UNIVERSITY OF TORONTO (C)

September 2019 - December 2019

Used C to quickly produce photorealistic scenes, combining linear algebra, physics, and programming concepts to implement advanced features including multithreading, texture mapping, anti-aliasing, depth of field, and refraction.

## **Tractify**

NEUROIMAGING, CENTRE FOR ADDICTION AND MENTAL HEALTH (PYTHON)

May 2019 - August 2019

• Designed and built an efficient tractography generation pipeline using software design principles to greatly decrease runtime and provide increased functionality for complex problems, and containerized it using **Docker** for increased accessibility and reproducibility.

# Extracurricular Activity \_\_\_\_\_

### **Game Development Club**

Executive

January 2019 - present

- Coordinating with a team to gather resources and projects to showcase in **biweekly meetings** concerning game development at the University of Toronto.
- Created and presented lectures to explain the logic behind popular game mechanics to guide beginners, engage in deep game design discussions, and discuss career paths in the game industry.

## Skills\_

**Programming** C++, C, Python, C#, Java, R, HTML, SQL

**Testing** Ranorex, JUnit, Selenium

Game Development Unity, GameMaker:Studio