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EDUCATION

Toronto, ON	University of Toronto	2016 – 2020 (Expected)

- Bachelor of Science expected 2020, **GPA: 3.83**
- Computer Science Specialist (Focus in Artificial Intelligence)
- Cognitive Science Major
- **Coursework:** Software Design, Software Tools and Systems Programming, Computer Organization, Theory of Computation, Probability, Calculus II, Linear Algebra I, Statistics I

SKILLS

- Experience with **team projects** to develop **communication** and **collaboration** skills.
- Studied **software design patterns** and basic **data structures**.
- Extensive use of **version control** and proper **documentation** techniques.

PROJECTS

- **Color Infinity!**   **Swift with Xcode**
  Developed and **published a mobile game** to the App Store. Strict implementation of the **Model-View-Controller** pattern in design using Protocols and appropriate variable declarations. Use of Swift features such as Initialization Inheritance, Computed Variables, Enumerations, Closures, and Optionals. **Designed UI** and all assets with image editing software. Incorporated Google's AdMob to **monetize** the app through banner and video ads. Over 100 downloads and **thousands** of ad impressions accumulated.

- **Eyetracking Data Resampling**   **Python with NumPy and pandas**
  Built a Python script to resample data sets from eyetracking experiments. Script inputs large data sets, runs computations and aggregates data to produce a summarized data set for **data analysis**. The types of computations and other settings are read through a **configuration** file which the user can modify according to their preferences. All large scale operations were coded with functionality provided by the **pandas** software library to **improve efficiency** and speed by several magnitudes.

- **Portfolio Website**   **React.js, Javascript, Bootstrap, CSS, HTML**
  Built and **published** a portfolio website to showcase accomplishments and highlights. Used Bootstrap to aid with **formatting** and automatic **layout** across platforms. Written mainly in Javascript using React.js to implement **JSX** and **external plugins**. Extensive use of presentational and functional **components**, **states**, and **props**. Designed features with proper knowledge of mounting, unmounting, and updating **lifecycle methods**.

- **Image Tagger**   **Java with JavaFX**
  Developed and designed an application with a **graphical user interface** that organizes image files by the manipulation of "tags." Worked on a **team** with three other team members integrating **version control** using git and utilizing external platforms for continuous communication. Implemented several **design patterns**. Divided and cooperated functions between front and back ends.

- **Unique Prime Factorization**   **C**
  Implemented an algorithm utilizing parallel processing to find the unique prime factorization of large numbers. Utilized **forking** of processes and inter-process communication via **pipes**. Developed for Unix-based systems.

WORK EXPERIENCE

- **Duncan Lab**   **Lab Programmer**
  Built **Python scripts** for use in the lab, including a script to generate and publish Qualification MIT's for Amazon's MTurk using Amazon Web Services **(AWS)**. Collaborated with other lab members to finish projects according to specifications by following **deadlines**.   **Summer 2018**

AWARDS

- **Entrance Scholarship** 2016
- **Dean's List** 2017, 2018

LANGUAGES AND TECHNOLOGIES

- Expertise in **Java**, **Python**, and **C**.
- Proficient in **Swift** and **Xcode**.
- Knowledge in **React.js**, **Javascript**, **Bootstrap**, **HTML**, and **CSS**.
- Experience in **Git**, **Bash**, **Racket**, and **Verilog**.