

Alexander Chum

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EDUCATION

University of Toronto

Bachelor of Science – Computer Science

Anticipated Completion – May 2019

cGPA: 3.68

Marianopolis College

Diploma of College Studies – Health Science

August 2014 – May 2016

The Marianopolis Millennium Foundation Entrance Award

EXPERIENCE

Educational Video Game Programming

May 2017 – August 2017

Design Research – University of Toronto

- Developed a full-feature educational game using Unity3D engine which contributed key information to Prof. Steve Engels' academic research
- My project "Central Immune System" was featured on University of Toronto's newsletter as a suggested great learning game
- Tremendously positive results from a playtesting session with 50 testers, 90% showed interest in a sequel

PROJECTS

Gravity Blop – Mobile Game <http://alexanderchum.com/portfolio/>

July 2017 – Present

Unity, C#

- Programmed a challenging mobile game which focuses on gravitational force principles to interact with a virtual environment

Block Breaker – Arcade Web Game

May 2017 – June 2017

Unity, C#

- Developed a classic arcade game from the 70's into a modernized 2D web game with all of its features revamped
- Implemented an automated AI to complete and test all game levels

SKILLS

Python (Proficient), C# (Proficient), Java (Proficient), C
Unity3D Engine, Django API, Affinity Designer, HTML, CSS

OTHER EXPERIENCES

Assistant Coach

October 2016 – April 2017

Afterburn Performance Fitness

- Motivated and trained athletes who through hard work, eventually joined premier teams
- Managed facility bookings and memberships using MS Access increasing the subscription rate by 10%

Co-Captain

September 2015 – August 2016

Dragon Boat Team – Montreal

- Led a household team to attain the podium 4 times against 160 competitive teams
- Successfully organized fundraising events which funded 50% of our team's cost

ACHIEVEMENTS

Orbis Challenge 2017 – **Ranked 4th solo in an AI coding challenge** to create an AI bot to compete among 80 teams of programmers in Toronto for a 3000\$ prize pool

Canadian Mathematical Olympiad 2015 – Invited among the top 80 math student nationwide

Mathematical Association of Quebec 2014 – **2nd place** amid all students in the state of Quebec