Jonathan Chiang - jonathan.chiang@mail.utoronto.ca

GitHub: https://github.com/szge   (647) 395-8638

EDUCATION

University of Toronto, St. George Campus - *HBSc Computer Science and Mathematics*

September 2019 - Present

- 3.8 GPA in first year courses including Calculus (A), Linear Algebra (A), Intro. to CS (A)
- Second year: Computer Organization (A+), Abstract Mathematics (A+), Software Design (B)
- Participated in the Computer Science First-Year Learning Community (FLC)

WORK EXPERIENCE

Digital Leisure Inc. - *Game Developer*

May 2021 - August 2021

- Created three 3D multiplayer minigames for an upcoming title: chess and checkers passed testing, prototyped an action-oriented minigame with projectile physics
- Worked independently to implement software designs within a client/server framework, created and debugged a C++ backend, refactored existing C# Unity minigame system
- Developed a Python plug-in for Maya to assist artist workflow

Summer Institute - *Volunteer*

July 2016 - August 2017

- 180+ hours volunteering hours over two summers, supervising kids and running activities

PROJECTS   (full portfolio at https://szge.github.io)

0 Barriers Accessibility Extension. Our CSC301 group partnered with 0 Barriers to create a Chrome accessibility extension. I worked on generating a PDF report of accessibility issues for a given website, and created an API to fetch the issues from the backend. JS, Node, MongoDB

CS:GO Cheat. Fully functional external cheat for the video game CS:GO. Implemented through direct memory read/write from the Windows API in C++. (Not tested against real people!)

Mortal Coil Solver. Automatic solver for www.hacker.org/coil. Used the Requests Python library to interface with webpages. Employed statistical methods and recursion. Top 10% of solvers.

SKILLS

Programming languages: Java, C++, C#, Python, JS, TS, Lua

Applied skills: data visualization (R), spreadsheets, Git, Plastic, HTML/CSS, Unity, React, Node

MISCELLANEOUS

- Founding Co-President of Trinity College Taiwanese Club
- Lagrange mathematics competition Canadian champion
- 15+ national awards in high school math and chemistry competitions
- Self-taught advanced guitarist