KEVIN J.Y. CUI

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 kevincui.dev

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Achievements

- Grade 11 U Physics Academic Award 2019
  - Recognition for my excellence and overall achievement in being the top performer of the Grade 11 University Physics course at Westmount Collegiate Institute
- Grade 11 U Function Mathematics Academic Award 2019
  - Recognition for my excellence and overall achievement in being the top performer of the Grade 11 University Functions course at Westmount Collegiate Institute
- Chief Scout's Award 2016
  - Highest award in Scouts Canada, from taking leadership roles in community service events

Skills & Proficiencies

- Proficient with computer programming languages Java, Python, and JavaScript; Experienced and knowledgeable with languages HTML, CSS, TypeScript, Arduino, C/C++, SQL, and JSON
- Experienced and proficient with various web application frameworks including Angular and Spring Boot
- Experienced and knowledgeable with various APIs including Jive, Discord, and Emotiv
- Understands the fundamentals of and have worked with LaTeX
- Experienced with Git
- Knowledgeable with Unity game engine
- Knowledgeable with breadboarding and soldering

Projects

- Electroencephalographic Neuromuscular Facial Expression Recognition Interface (ENFERI)
  - Used Python and Arduino to represent real-time neurological facial metrics with an LED matrix
- EEG cursor navigation application.
  - Uses JSON-RPC and a WebSocket server to communicate and receive synaptic transmissions from a client's brain to navigate a cursor in accordance to the client's neurological state
- Pac Graph
  - Uses the BFS graph theory algorithm to make a clone of the classic arcade game Pacman with Python and the Pygame module
- Evolution simulation.
  - Uses Python to simulate biological concepts in evolution, such as natural selection and allopatric speciation.

Education

- Westmount Collegiate Institute 2016-2020
    - *Member of computer science club – 2017-2019 (Current)*
    - *Member of science club – 2016-2019 (Current)*
    - *Admitted into Arts Westmount Program for Visual Arts – 2016-2018*
    - *Model United Nations – President and Founder 2018- 2019*

Experience

- *RBC Royal Bank – Innovation Developer, Technology & Operations 2019*
    - Innovation Developer summer intern at RBC. Software development.
- *Toronto Youth Network – Web Developer 2019*
- *Triway Education – Mathematics Tutor 2019*
    - Providing guidance for developing vital mathematical skills. Teaching important concepts in the mathematics curriculum
- *The Knowledge Society (TKS) – Alumni 2018-2019*
    - Admitted into The Knowledge Society, an organization for youth entrepreneurship and technological innovation. Developed various projects involving neurotechnology software applications

Volunteer Experience

- *DMOJ: Modern Online Judge; Triway Education – Problem Setter 2019*
    - Set problem statements for the Triway Cup 2019 Junior Computing Contest on DMOJ: Modern Online Judge
- *City of Toronto Long-term Care Services – Dining Assistance & Recreational Department 2017-2019*
    - Provided meal and customer service in the dining assistance program, portered residents to the dining room and engaged them in conversation during mealtime
    - Aided the recreational department with special events, ensuring the safety, comfortability, and inclusiveness of residents
    - Facilitated and managed bingo recreational activities, took initiative to play piano regularly to residents
- *Canadian Blood Services #GetSwabbed Stem Cell Drive – 2018*
    - Respectfully but effectively persuaded visitors of the Richmond Hill Times Square Summer Festival to become stem cell donors, far exceeding the assigned target
- *YRDSB Summer Institute – 2017*
    - Took supervision and coordination roles, ensuring the well-being of camp members, enforcing camp rules, and aiding ESL members through camp activities
    - Assisted in teaching Mandarin and developing key Mandarin skills of the camp members as part of the International Languages camp