**KEVIN** J.Y. **CUI**

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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

o 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