

# KEVIN CUI

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🌐 www.kevincui.dev  
📁 kevinjycui    🔄 kevinjycui

## EXPERIENCE

### Data Engineer Intern, Technology & Operations RBC Royal Bank of Canada

📅 Jul – Aug 2021    📍 Toronto, ON

- Data provisioning, data pipeline automation, full stack application development, documentation generation
- Worked in an Agile team, collaborating and communicating with other teams in different disciplines

Hadoop   HDFS   Java   Maven   Python   SQL   Squirrel DB  
Node.js   JavaScript   Express   Git   Jenkins   Windows

### Innovation Developer Intern, Technology & Operations RBC Royal Bank of Canada

📅 Jul – Aug 2019; Jul – Aug 2020    📍 Toronto, ON

- Full stack software development building internal applications
- Conducted usability testing, moderated test sessions with design teams
- Moderated source control, reviewed, tested, and debugged changes from all other development teams to new releases
- Presented and demonstrated solutions to senior executives

React   Node.js   TypeScript   Express   Git   Angular

## PROJECTS

### DKBongoToKey Game controller interface

📅 Aug 2021    🔄 kevinjycui/DKBongoToKey

- A keyboard and mouse interface for the Nintendo GameCube DK Bongos to Windows 10 PC

C++   SDL   DirectInput   WinAPI

### Desmos Renderer Fun graphing calculator art tool

📅 Apr 2021    🔄 kevinjycui/DesmosBezierRenderer

- A program that draws images and videos as curves on the Desmos Graphing Calculator using potrace and Bezier curve formulas

Python   Potrace   OpenCV   Flask   HTML   JavaScript

### Practice Bot Competitive programming utility bot

📅 Mar 2020 – Jul 2021    🔄 kevinjycui/Practice-Bot

- An all-competitive-programming-purpose open source Discord bot, Discord to online judge integration
- Developed bot program, configured API connections and MariaDB database, setup AWS instance, moderated open-source contributions
- Used by over 500 Discord servers

Python   MariaDB   discord.py   AWS   Bash   Linux

## AWARDS & ACHIEVEMENTS

📺 **Junferno 2021 – Ongoing**  
I run a YouTube channel with a modest following covering topics in tech, math, linguistics, and gaming  
🌐 youtube.com/c/Junferno

🏆 **Hack the NE 2020, Top 3 Gaming**  
2nd Most Community Voted  
🌐 devpost.com/software/neurologue

🏆 **PicoCTF 2019, Top 30 Canadian**  
Top 3% percentile globally; Online Cyber-Security Contest hosted by CMU. Forensics, web exploitation, cryptography, reverse engineering  
🔄 kevinjycui/picoCTF-2019-writeup

🏆 **PennApps 2019, Top 30**  
Top 30 best overall; Hackathon hosted by the University of Pennsylvania  
🌐 devpost.com/software/hand-spoken

## SKILLS

### Programming Languages

C++   Python   Java   JavaScript  
HTML+CSS   Bash   C   Go   TypeScript  
C#   SQL   Arduino   LaTeX   Awk+Sed

### Frameworks, Engines, Libs, & Databases

Unity   SDL   OpenGL   Node.js   Maven  
React   Django   Angular   Hadoop  
MySQL   MariaDB

### Development Tools & Environment

Git   UNIX/Linux   Windows   Visual Studio  
Vim   GNU   AWS

Idiomatic in English, proficient in Mandarin, elementary Japanese

## EDUCATION

### McGill University

#### Candidate for B.Sc. in Computer Science

📅 2020 – Ongoing    📍 Montreal, QC

CGPA: 4.0; Relevant courses: Computer Science, Software Systems, Computer Systems, Software Design

### Westmount Collegiate Institute Ontario Secondary School Diploma

📅 2016 – 2020    📍 Vaughan, ON

Academic Average: 97%