KEVIN CUI

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EXPERIENCE

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

📅 Jul 2021 – Aug 2021   📍 Toronto, ON

- Data provisioning in Hadoop, data pipeline automation with Python and Java, full-stack application development for database web portal in Express, documentation generation using SQL and JDBC
- Worked in an Agile team of 6, collaborating and communicating with other teams in different disciplines

`Hadoop` `HDFS` `Java` `Maven` `Python` `SQL` `JDBC` `Node.js` `JavaScript` `Express` `Git` `Jenkins` `Windows`

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

📅 Jul 2020 – Aug 2020   📍 Toronto, ON

- Full stack software development building internal applications: retrospectives web application with React front-end and Express back-end
- Led an Agile team of 4 as a returning intern, helping new developers get setup, moderated and managed changes from team
- Moderated source control, reviewed, tested, and debugged changes from all other development teams to new releases

`React` `Node.js` `TypeScript` `Express` `Git` `Windows`

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

📅 Jul 2019 – Aug 2019   📍 Toronto, ON

- Full stack software development building internal applications: student talent management web portal application with Angular front-end and Spring Java backend
- Conducted usability testing, moderated test sessions with design teams
- Presented and demonstrated solutions to senior executives

`Node.js` `TypeScript` `Java` `Git` `Angular` `Spring` `SQL`

PROJECTS

DKBongoToKey
Game controller interface

📅 Aug 2021   ⌘ kevinjycui/DKBongoToKey

- A keyboard and mouse interface for the Nintendo GameCube Donkey Kong 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` `OpenCV` `Flask` `HTML` `JavaScript` `FFmpeg`

Practice Bot
Competitive programming utility bot

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

- An all-competitive-programming-purpose open source Discord bot, online judge to Discord
- 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`

EDUCATION

McGill University
Candidate for B.Sc. in Computer Science

📅 2020 – 2024   📍 Montreal, QC

CGPA: 3.9/4.0;
Relevant courses: Computer Science, Software Systems, Computer Systems, Software Design, Programming Languages & Paradigms, Algorithms & Data Structures

SKILLS

Skills I've worked with directly. Ordered by approximate proficiency/relevance.

Programming & Other Languages

`C++` `Python` `Java` `JavaScript` `C#` `Bash` `C` `Go` `TypeScript` `SQL` `HTML+CSS` `Arduino` `LaTeX` `Rust` `Scala` `OCaml` `MIPS Assembly` `Haskell` `Kotlin` `R`

Frameworks, Engines, Libs, & Databases

`Node.js` `Maven` `React` `.NET` `SDL` `Unity` `NumPy` `OpenGL` `Django` `Hadoop` `MySQL` `MariaDB` `OpenCV`

Development Tools & Environment

`Git` `UNIX/Linux` `GNU` `Windows` `Visual Studio` `Vim` `FFmpeg` `AWS`

OTHERS

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