# KEVIN CUI

@ kevinjycui@protonmail.com  🌐 www.kevincui.dev
in kevinjycui  🐙 kevinjycui  🎮 junferno.itch.io  ▶ Junferno

## 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
- Conducted usability testing, moderated test sessions with design teams, presented and demonstrated solutions to senior executives

React  Node.js  TypeScript  Express  Git  Windows

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

📅 Jul 2019 – Aug 2019  📍 Toronto, ON

Node.js  TypeScript  Java  Git  Angular  Spring  SQL

## PROJECTS

### Wayward Bones
**2D digging + platformer game**

📅 May 2022  🐙 kevinjycui/WaywardBones

- Designed and developed entire platforming enemy boss stage including entity movement, fixed bugs in other stages, moderated source control
- Programmed in-game enemy boss animation cycles and particles fitted to attack patterns, collaborating with artists and sound designers

C#  Unity  Visual Studio  Git

### 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 800 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
VP Finance of Game Dev Student's Society
Fall 2022: Operating Systems, Artificial Intelligence, Algorithms, Software Engineering Project

## 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  REST
Visual Studio  Vim  FFmpeg  AWS

## OTHERS

▶ **Silver Play Button**
I run a YouTube channel with >100K subscribers as of 2022 covering topics in tech, math, linguistics, and gaming
🌐 youtube.com/c/Junferno

🏆 **Wayward Bones**
McGame Jam 2022 Audio Winner
🎮 akjanklin.itch.io/wayward-bones