

# 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
- 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   Scala  
OCaml   MIPS Assembly

### 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