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

LUSK
3D platformer wall-crawling game (McGameJam '23)

📅 January 2023 🔗 kevinjycui/LUSK

- Programmed movement, environment, and animation

`C#` `Unity` `Blender` `.NET` `Visual Studio` `Git`

Wayward Bones
2D digging + platformer game (McGameJam '22 Audio Winner)

📅 May 2022 🔗 kevinjycui/WaywardBones

- Programmed entity movement, player controls/attack system, in-game enemy boss animation cycles and particles fitted to attack patterns
- Fixed bugs in other stages, moderated source control, collaborating with artists and sound designers

`C#` `Unity` `.NET` `Visual Studio` `Git`

Donkey Kong Bongo to Key
Keyboard & mouse interface for the DK Bongos for GameCube

📅 Sept 2021 🔗 kevinjycui/DKBongoToKey

`C++` `SDL` `DirectX (DirectInput)`

Desmos Renderer
Fun graphing calculator art tool

📅 Apr 2021 🔗 kevinjycui/DesmosBezierRenderer

`Python` `OpenCV` `Flask` `HTML` `JavaScript` `FFmpeg`

Practice Bot
Competitive programming utility bot

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

`Python` `MariaDB` `discord.py` `AWS`

EDUCATION

McGill University
Candidate for B.Sc. in Computer Science

📅 2020 – 2024   📍 Montreal, QC

CGPA: 3.8/4.0
VP Finance, Game Dev Student's Society

`Java` `C` `C++` `Python` `Maven` `Unity` `Docker` `Spring` `x86 Assembly`

SKILLS

Programming & Other Languages

`C++` `C` `Python` `C#` `Java` `JavaScript` `Bash` `Go` `GLSL` `TypeScript` `Lua` `Scala` `SQL` `HTML+CSS` `Arduino` `x86 Assembly` `MIPS Assembly`

Frameworks, Libs, & Databases

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

Development Tools & Environment

`Git` `Docker` `Linux` `Unity` `GNU` `Jenkins` `Visual Studio` `Vim`

OTHERS

▶ **Silver Play Button**
I run a YouTube channel with >150K subscribers as of 2022 covering topics in niche software, game development, mathematics, audio processing, etc.
🌐 youtube.com/c/Junferno