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;
Relevant courses: Computer Science, Software Systems, Computer Systems, Software Design, Linear Algebra, Algorithms
Clubs: McGill Game Dev, Table Tennis

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