KEVIN JUNYANG CUI

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www.kevincui.dev

Junferno

WORK EXPERIENCE

Tools Programming Intern, Baldur's Gate 3 Larian Studios

- **May 2024 Aug 2024**
- Quebec City, QC
- Custom tools development on in-house editor software for game development & production of Baldur's Gate 3
- Introduced new features such as a new interaction mode in the scene window, performed refactors, and patched bugs for both the regular (internal) and modding (community) in-house game editor
- Communicated and collaborated directly with scripters, artists, animators, designers, and QA across studios internationally

C#	C++	C++ CLI	.NET	WPF	WinForms	Perforce
Jira						

Programming Intern, Nondisclosure video game Behaviour Interactive

- **Sept 2023 Dec 2023**
- Montreal, QC
- Programmed on a medium-sized game development team, collaborating and communicating directly with artists and designers
- Implemented key features in animation and gameplay system in the early stages of a game development project
- · Conducted code review, including that of senior programmers

Unity	C#	.NET	Rider	Perforce	Jenkins	Jira

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

- **Jul 2021 Aug 2021**
- ▼ Toronto, ON
- Data provisioning, data pipeline automation, full-stack application development for database web portal, documentation generation

Hadoop	HDFS .	Java Mav	en P	ython	SQL	JDBC
Node.js	JavaScript	Express	Git	Jenkir	าร	

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

- **i** Jul Aug 2019 & Jul Aug 2020 ▼ Toronto, ON
- Full stack software development building internal web application

React	Express	Node.js	TypeScript	Java	Git	Angular
Spring	SQL					

CONTESTS & WALKTHROUGHS

- devpost.com/kevinjycui
- kevinjycui/advent-of-code-2020
- Revinjycui/advent-of-code-2019
- kevinjycui/picoCTF-2019-writeup
- kevinjycui/Competitive-Programming

INDIE EXPERIENCE

Lead Programmer & Writer, SLEEP HERD

Lamp Katze Studio

- Feb 2024 ongoing lampkatze.com
- Designing and developing code infrastructure for indie game, owning feature implementations, refactors, bug fixes, etc.
- Leading team of 4 programmers in discussions, roadmapping, etc.
- Performing dev-ops and tools programming to support artists, designers, and programmers
- Contributing to design, writing scripts, composing music
- Managing source control, conducting code review, creating documentation
- Managing recruitment, marketing, and production

Unity	Git	GitHub
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PROJECTS

kinnieplaylist.net

Character playlist database web-app

- Nov 2023 Jan 2024 kinnieplaylist.net
- Solo full-stack developed a React front-end, Flask back-end web-app, MySQL database for compiling character playlists

React	MySQL	. J Fla	ask	Dig	italOcean
Nginx	JavaSci	ript	Pyth	ion	Bash
REST	JSON	Git	Sp	otify	Web API

Desmos Renderer (>500 stars)

Fun graphing calculator art tool

- **★** Apr 2021 **♦** kevinjycui/DesmosBezierRenderer
- Converts images to SVG, extracts Bezier curves, pushes to Desmos API as LaTeX expressions

Python	Potrace	NumPy	OpenCV
Flask	JavaScript	ETEX	Desmos API

Practice Bot (>800 servers)

Competitive programming utility Discord bot

Mar 2020 - Jul 2021 Revinjycui/Practice-Bot

Python MariaDB Selenium discord.py

AWS Bash JSON

HUMAN LANGUAGES

Native English & Mandarin Intermediate Japanese

EDUCATION

McGill University

Candidate for B.Sc. Major in Computer Science						
CGPA: 3.8/4.0						
Game Dev McGill: VP Finance (2022-2023), VP External (2023-2024 current)						
Research Project (2023): Audio to animation neural net Python NumPy Jupyter Jupyter Notebook Tensorflow Unity Company	# .NET VMC/OSC					
International Exchange (2024-2025): Waseda University, Tokyo, Japan						
Advanced courses taken: Computer Graphics, Computer Animation, Artificial Integration [Java Maven Spring C C++ OpenGL GLSL Python NumPy [Docker Bash x86 Assembly LATEX MS-DOS						
SKILLS						
Programming & Other Computer Languages						
C++ C Python C# Java JavaScript Bash Go GLSL Type SQL HTML+CSS Arduino x86 Assembly LTEX	eScript GDScript Lua Scala					
Frameworks, Libraries, Engines, & Databases						
GNU .NET Node.js Unity Godot OpenGL SDL Maven Sp	ring React Angular Express					
Flask NumPy Django Hadoop HDFS Jupyter Tensorflow My Bootstrap SpigotMC	/SQL MariaDB OpenCV Selenium					
Development Tools & Environment						
Git GitHub Perforce Docker Jenkins Jira Lint Linux Windows MS-DOS Jupyter Notebook Visual Studio JetBrains Vim						
Cloud, Protocols, File Formats, Graphics Softwares, & DAWs						
AWS DigitalOcean Nginx JSON XML YAML HTTPS SSH Blender Audacity Clip Studio Paint Musescore UTAU Microsoft Ex	REST WebSocket VMC/OSC xcel (Advanced)					
YOUTUBE CHANNEL & OPEN SOURCE						
I run a YouTube channel covering topics in niche software, game dev, math, audio processing, etc. including video essays and tech demos. The channel has >15 million views and >180k subscribers as of 2024. youtube.com/c/Junferno	Bad Apple!! Demoscene (>6 million views, >800 stars) I participate in the open internet demoscene of "Bad Apple!!" in which a black-and-white music video is programmatically played on as many dif-					
- Open source	ferent platforms as possible in creative ways Revinjycui/bad-apple					