KEVIN JUNYANG CUI

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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 for junior and senior programmers

Unity	C#	.NET	Rider	Perforce	Jenkins	Jira

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

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

Hadoop	HDFS	Java	Mave	n F	ython	SQL	JDBC
Node.js	JavaScrip	ot Ex	press	Git	Jenkii	ns	

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

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

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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, 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. including gameplay, AI, & physics
- Leading team of 4 programmers. Creating roadmaps and setting milestones
- Performing dev-ops and tools programming to support artists, designers, and programmers
- Contributing to design, writing scripts & storyboards, composing music, filling in for artists on UI, concept art, animation
- Managing source control, conducting code review, creating documentation
- Managing recruitment, marketing, and production

Unity	Git	GitHub	Blender

PROJECTS

kinnieplaylist.net

Character playlist database web-app

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

React	MySQL	Flask	DigitalOcean	
Nginx	JavaScrip	ot Pyt	hon Bash	
REST	JSON	Git Sp	potify 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 LTFX expressions

Python	Potrace	NumPy	OpenCV	
Flask	JavaScript	ETEX	Desmos API	

Practice Bot (>800 servers)

Competitive programming utility Discord bot

Mar 2020 – Jul 2021 🐧 kevinjycui/Practice-Bot

Python	Maria	DB	Selenium	discord.py
AWS	Bash	JSON		

HUMAN LANGUAGES

Native English & Mandarin Intermediate Japanese, Beginner French

EDUCATION

McGill University
Bachelor of Science Major in Computer Science
■ 2020 - 2025
Advanced courses taken: Computer Graphics, Computer Animation, Artificial Intelligence, Intermediate Japanese Writing Java Maven Spring C C++ OpenGL GLSL Python NumPy SymPy Unity C# .NET Docker Bash x86 Assembly MS-DOS Game Dev McGill (GDM): VP Finance (2022-2023), VP External (2023-2024) Research Project: Audio to animation neural network (2023) Python NumPy Jupyter Jupyter Notebook Tensorflow Unity C# .NET VMC/OSC International Exchange (2024-2025): Waseda University, Tokyo, Japan Took courses on Multimedia Systems, Signal Processing. Member of Waseda Computer Entertainment (WCE) circle
SKILLS
Programming & Other Computer Languages C++ C Python C# Java JavaScript Bash Go GLSL TypeScript GDScript Lua Scala SQL HTML+CSS Arduino x86 Assembly FTEX
Frameworks, Libraries, Engines, & Databases
GNU .NET Node.js Unity Godot OpenGL SDL Maven Spring React Angular Express Flask NumPy Django Hadoop HDFS Jupyter Tensorflow MySQL MariaDB OpenCV Seleni Bootstrap SpigotMC
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 REST WebSocket VMC/OSC Blender Audacity Clip Studio Paint Musescore UTAU Microsoft Excel (Advanced)
YOUTUBE CHANNEL & OPEN SOURCE
YouTube Silver Play Button (>100K subscribers) 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

I occasionally contribute to open source projects on GitHub, such as DMOJ: Modern Online Judge

grammatically played on as many different platforms as possible in creative

♠ kevinjycui/bad-apple