

# JOVIC PANAHON

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## EDUCATION

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### Bachelor of Computer Science

January 2022 - August 2024

*University of Windsor*

## SKILLS

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**Programming Languages:** C++, C, C#, Python, JavaScript, HTML, CSS, PHP, and SQL.

**Technologies:** Vulkan, PostgreSQL, Svelte, SvelteKit, discord.js, discord.py, CMake, Databases, Unity Game Engine, and Git.

## PROJECTS

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### Adrenaline Engine

2020 - present

- An open source game engine designed to be fast, rendering complex 3D scenes in less than a second. It is written in **C++17** taking advantage of the modern low-level **Vulkan graphics API**, allowing Adrenaline to use **less resources** than most game engines. **CMake** is used to build on any platform.
- **Implemented Object Oriented Programming, dynamic memory allocation, and RAIL.**
- Currently a 3D model viewer with a graphical user interface, multiple model support, run-time model loading support and benefits from the modern **glTF 3D model format** to quickly load models.
- Developed as a **solo project** to fulfill the needs of a **fast, modular, but not bloated game engine.**

### What's Up With This Water?

2023

- A web application made for the 2023 NASA Space Apps Challenge Hackathon using **Django** and **StreamLit**. It can search and visualize **hundreds of thousands** of water quality data since 2000 and endangered marine life in Ontario, Canada.
- Tasked with database implementation and project deployment, **worked efficiently with 5 other computer science majors.**

### Infamous

2017 - 2020

- A general purpose discord bot with a lot of features that was written in **Python** using **discord.py**, and **PostgreSQL**, it was used by **over 100+ users** in over 30 different discord servers.
- Can store data in a database, do **image manipulation**, has a text based role playing game that has an economy, shop, quests, boss fights, and player versus player combat.

### The University of Windsor Board Games Club Suite

2022 - present

- A website and discord bot for the University of Windsor Board Games Club. The website is built with **SvelteKit** a backend for **Svelte**, it also interacts with a **PostgreSQL** database to hold information about the club.
- The discord bot is written in **JavaScript** using **discord.js** was designed to aide online events. It serves **over 300** club members.

## EXTRA-CURRICULAR ACTIVITIES

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### The University of Windsor Board Games Club

2022 - 2023

President (formerly Vice-President).

- Helped increase club membership by **over 300%** by participating in the university's involvement fair and open houses, online advertising, and word of mouth. Also helped increase club engagement by **personally** hosting more board games events, recruiting more hosts, and introducing new games.
- **Led a team of developers** to develop a website for the club.