

Seraphinus Hong

Software engineer

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Relevant experiences

generic-discord-music-bot [↗](#)

March 2021

A generic music bot for Discord, using Discord.js, MongoDB, Node.js, written in Javascript.

- Implemented backend logic for various user commands, including repeating songs and skipping songs
- Integrated MongoDB to save and load playlist by Discord servers
- Utilized Knuff shuffle algorithm to randomize a list of songs in O(1) memory

The Chameleon [↗](#)

January - April 2020 / UBC CPSC 427 game project

Puzzle game built with OpenGL 3.x.

- Designed and built animation screens for story-based dialogue
- Implemented aabb-aabb collision for all entities (character, enemy, bullets, wall)
- Implemented logic to stabilize frame rate for better play experience

image-hub [↗](#)

January - April 2019 / UBC CPSC 319 project for company Associative Engineering

A web application-based image database. Users can upload images to add to the database, search images uploaded by other users, filter images based on metadata. System usage is logged, which administrators can view.

- Designed UI specifically for target users, for simplicity over complexity
- Drafted medium- (image-based) and high-fidelity (HTML-based) front-end prototypes
- Implemented front-end function for handling user input and uploading images
- Developed and implemented application-specific search engine for images with filter functionality

Other projects

hugo-mysterium [↗](#)

A minimalist theme for hugo, written in HTML, CSS, and Javascript.

tumblr-aincrad [↗](#)

Tumblr theme based on Aincrad from Sword Art Online, using jQuery 3.5.1, written in HTML, CSS, and Javascript.

Relevant skills

Programming languages

Javascript (ES6), Typescript, HTML, CSS, Java, Python, C++

Libraries and frameworks

Express, Hugo, jQuery, Mongoose, Node.js, Nodemon, React

Education

University of British Columbia

2016 - 2020 / Vancouver, BC

Bachelor of Computer Science (B. CS)

2011 - 2016 / Vancouver, BC

Bachelor of Science (B. Sc) in Combined Major in Science

Interests

Bowling, gaming, gardening, snowboarding, virtual reality, visiting cafes, translating, and more.