

Alexander McRae

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Education

University of Victoria

Bachelor of Science in Computer Science, Minor in Business

September 2017 - present

Relevant Skills

Programming Languages

C/C++, Rust, Go, Haskell, Python, Java

Web Development

Typescript, React, Vue, Nodejs, MongoDB, SQL, Express

Graphics

Ray Tracing, OpenGL, WebGL

Projects

Ray Tracer github.com/McRaeAlex/tiny-raytracer

Implemented an extensible rendering engine with lighting, reflection, and refraction.

Tiny URL github.com/McRaeAlex/tinyURL

Developed a web application that compresses URL's, allowing the user to go to the shorter URL and see the original website.

Snake Engine github.com/McRaeAlex/dimensional-snake-engine

Built an implementation of the game Battle Snake using an entity components system (ecs).

Typescript/React Game Interface github.com/McRaeAlex/DSnake-Typescript

Created a progressive web application using Reactjs and TypeScript which serves as the front end for a HTTP game I created.

Cat Camera github.com/McRaeAlex/prettykitty

Using a Raspberry Pi, Twilio, and Nodejs, created an application that takes pictures of cats and sends them to users in response to a text message.

What To Eat github.com/McRaeAlex/WhatToEat

Made a web application using Golang and SQL that gives the user a random recipe. The user can then choose if they like that recipe or if they do not like it another is shown.

Experience

Battle Snake 2019 github.com/McRaeAlex/BattleSnake2019

Participated in a local coding competition and created an HTTP server which plays a version of the game snake.

Advent Of Code github.com/McRaeAlex/AdventOfCode2018

Participated in global coding competition facing various coding challenges leading up to Christmas.

Web Development Club

Take part in discussions, talks and projects in a group regarding web technologies.

Rocket Club

Predicted the landing of the rocket using real time data coming from the rocket. Gained experience working with a large team and many different sub teams.

Interests

Running, Guitar, Camping, Economics