

Samuel McKay

1050 Hobbit Street
Fort Collins, CO 80521
<https://github.com/Retrope13>
(409) 504-8250
sammckay31@gmail.com
<https://www.linkedin.com/in/sam-mckay13/>

ABOUT ME

I am a dedicated and hardworking individual with passion for computer science. During my college education I was able to work on many interesting projects that deepened my understanding and interest in software development. Since many of these projects were concurrent and created within groups I have become a reliable, functional, and flexible team member who possesses wonderful time management and team management skills. While my true passion lies in web development and UI/UX design I have a versatile skill set that supports a wide range of domains. During my time at CSU I fell in love with the unique creative expression that web development allows and the imaginative strategies one must employ to solve the problems that arise.

EDUCATION

Colorado State University, Fort Collins — *Bachelor of Science*

August 2019 - May 2023

Cumulative GPA - 3.71

I pursued a bachelor's degree in computer science at Colorado State University and graduated within four years of my first semester. While in academia I had the opportunity to work on many projects that fostered an exceptional skillset in web development, linguistic analysis, machine learning, UI/UX development, smart contract development, object-oriented design, and test-driven development.

PROJECTS

Trip Planner — CS314 - Software Engineering

During this project my group and I applied Agile concepts in conjunction with GitHub to create a website where a user could search for locations, add them to a trip, shorten that trip through the nearest neighbor algorithm, and calculate the total distance of the trip.

CryptoBot — CS370 - Operating Systems

The project I finished my 3rd year in college was a computerized system

SKILLS

C
C++
React.js
Python
Javascript
Multiprocessing
Agile CMMI
Test-Driven Development
Object-Oriented Design
Team Management
Game Design
Game Development
VR Development
Machine Learning
Full-Stack Development
Time Management

AWARDS

Academic Letter While I was in high school I received an academic letter and made Honor Roll every trimester

The National Society of Collegiate Scholars Due to my GPA I am currently a member of NSCS

Scholarships I was honored to attend CSU on an academic scholarship for my SAT score

designed to purchase and sell cryptocurrencies in an automated fashion. For this project, my team and I used multithreading to support the management of cryptocurrency information and update the GUI that we developed.

and the GPA I maintained while at CSU.

Tower Defense — CS310H - Mixed Reality Design

Using the Unreal engine I created a virtual reality tower-defense game. Enemies would spawn at the base of the tower and the player was tasked with using a variety of guns to complete the levels.

Music Classification — CS345 - Machine Learning Foundations and Practice

I implemented a Support Vector Machine and a Random Forests classifier which allowed me to classify music with significantly higher accuracy than random guessing allowed.

Bidder, Faster, Stronger - CS458 - Blockchain Principles and Applications

Using React.js I created a responsive website that functions as a bidding platform for NFTs of my own creation. This website uses Web3 to manage the connection of a MetaMask account to the website as well as make function calls to the smart contract written in Solidity.

GeoPursuit - CS464 - Principles of Human Computer Interaction

During this project my team and I created a React.js website that housed a presentation, an interactive map using Highcharts, and a test which would help us determine if the interactive map and the presentation were statistically different from each other.

Company Management - CS415 - Software Testing

The backend to the website created for this class was developed in Java using object oriented design to more easily use class dependent functions and methods. To test our methods we used JUnit as well as the automated testing suites: Randoop, EvoSuite, Pmd, Spotbugs, and Ekstazi

The Color Garden - CS312 - Modern Web Applications

Within CS312 I created a website that used JavaScript, PHP, SQL, HTML, and CSS to give users the ability to create a canvas of their preference as

well as select, remove, edit, and add colors when “painting” on the canvas which was an embedded table using HTML.

DNDBuddy — *Personal Project*

I developed an application to ease new players into the game Dungeons and Dragons. The program uses an graphical user interface to allow users to save and load features to maintain player’s inventories as well as allow them to gain new abilities and items.

Translator — *Personal Project*

I created a translator that allowed the conversion of English into a written language of my own creation, Anterian. This was intended for use in a pastime of mine: Dungeons and Dragons.

EXPERIENCE

Domino’s, 6709 W Coal Mine Avenue— *Customer Service*

June 2017 - November 2017

I was in charge of making sure the front end of the store communicated effectively with the back end of the store and had to ensure my responsibilities didn't interfere with my coworkers

Sweet Tomatoes, 7736 W Long Drive— *Sales Associate*

January 2018 - April 2018

I confirmed that the product we provided was up to standards. I was also expected to clean and maintain an expectation for quality assurance.

Domino’s, 11757 W Ken Caryl Avenue— *Customer Service*

June 2018 - October 2018

During my second employment at Domino's, I was expected to fulfill all of my previous obligations as well as take on new responsibilities in helping managers close, and help them with other managerial tasks.

Kohls, 813 E Harmony Road— *Sales Associate*

November 2020 - June 2021

I solved issues that customers shared with me, helped restock shelves, loaded trucks for amazon returns, and even helped manage all of the tills in the store.