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https://ahochha.github.io/portfolio

# **Education**

South Dakota State University, Brookings, SD

## Bachelor of Science in Computer Science, Minor in Software Engineering

Graduation Date: May 2020 **Current Cumulative GPA: 3.558** Honors: Dean's List (4 semesters)

Activities: Member and current Vice President of SDSU's Association for Computing Machinery club, CS tutoring

### Skills and Qualifications

- Languages: (Proficient) C/C++, C#, Javascript/Typescript, SQL, HTML/CSS (Familiar) Java, Python, Assembly, Pascal
- Knowledgeable in Git and Azure DevOps source control.
- Well-practiced with agile development processes, specifically SAFe (Scaled Agile Framework).
- Adept at creating/modifying SQL scripts and procedures using SQL Server Management Studio.
- Experienced with using **Unity** to code 3D games.
- Skilled with frameworks/technologies such as ASP.NET Core, Angular, Ionic, Bootstrap, Xamarin, and Firebase.

## **Work Experience**

Daktronics, Brookings, SD

**Software Developer**, September 2018 to Present

- Developing and maintaining production level web applications using ASP.NET Core, C#, Typescript, and MVVM architecture as a student on Daktronics IT Software Development teams.
- In a recently completed project, I implemented file upload validators used to preserve data integrity in an application that stores employee pay data. Created the necessary tables, scripts, and controllers. Designed the file upload UI.
- Currently on a team developing a new application to manage employee time off. I've begun work focused on loading the application with data using existing time off tables and queries. Writing necessary scripts and controllers.
- Gaining agile development experience by participating in bi-weekly sprint planning and review meetings.

Rise United Media, Brookings, SD

### Software Developer, September 2019 to Present

- In a group helping Rise United develop their mobile focused social media application as a senior design capstone project. Using Xamarin for cross platform development and Microsoft Azure to host web services.
- Currently preparing to save user audio recordings by binding views to their respective view models.

South Dakota State University, Brookings, SD

**Teacher's Assistant**, August 2019 to December 2019

Helped computer science freshmen learn how to code in SDSU's Intro to Computer Science Lab using Unity to implement a basic game. Involved helping students with their code, but also general college and CS questions as well.

## **Notable Projects**

Visit https://ahochha.github.io/portfolio for more projects.

## Assembler/Linker Loader, September 2018 to December 2018

- Involved understanding how a computer works at a low level. The assembler used C++ and the linker loader used C#.
- Assembler consisted of two passes. Pass one parsed symbols from an assembly file and opcodes from a data file. After validation, both were loaded into their respective tables and used to increment the program location counter. Pass two generated object code and created the relevant records. The result was then output as an object file.
- The loader processed object files then loaded them into memory. If relocation was needed, object programs were modified so they would have the correct addresses in memory. The linker combined multiple object files.

# Monte Carlo Method, December 2019

- Program estimated the value of PI using the Monte Carlo method. Implemented using C.
- Used OpenMP to calculate PI with multiple parallel threads. The number of threads and samples were provided by the user on the command line. The time required to complete the task was tracked and results were displayed to the user.