Michael Alberda

Garden City, Idaho, 83714 | (208) 761 - 2179 | malberda15@gmail.com

# Education

## B.S. Computer Science | May 2023 | Boise State University

## B.S. Mathematics – Computation Option | May 2021 | university of idaho

# Experience

## Software Engineer - Intern | Tovuti LMS | June 2022 - Ongoing

# Work together with other developers and engineers to design, construct, and implement fixes and new features in a Learning Management System. Use a variety of tools and languages including PHP, MySQL, JavaScript, and HTML to deliver a good product to our customers and meet their needs.

## Software Intern | Tap Network LLC | January 2022 – May 2022

* **Collaborate with developers and other interns to create documentation for existing codebase. Regularly meet with CEO to determine future of app to meet client demand.**

## Head Lifeguard | Treasure Valley YMCA | June 2016 – September 2017

* **Cooperate with other lifeguards and staff to maintain a clean and safe place of business, and engage with patrons to encourage a happy and healthy YMCA.**

# Skills & Abilities

## Proficient Programming Languages

* PHP, JavaScript, HTML, C, C++, Java

## Relevant Skills

* Scrum and Agile Development, Git, Linux, SQL

## Familiar Programming Skills

* TypeScript, Python, Unity

# **Projects**

## Reduction of States in a Finite Automaton - C - <https://github.com/malberda/cs385finalproject>

### An adaptable demonstration of the concept of reducing states in a finite automaton.

## Optimal Binary Search Tree - JavaScript - <https://github.com/malberda/project-395>

### A web page demonstrating the creation and maintenance of an optimal binary search tree

## Data Structures Bioinformatics - Java - <https://github.com/malberda/BTree-BIOINFORMATICS>

### A B-Tree that stores and performs operations on a series of excerpts on the human genome. this project implements a cache in order to speed up processing while searching the genome for frequencies of specific substrings