Michael Alberda

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Education

B.S. COMPUTER SCIENCE | MAY 2023 | BOISE STATE UNIVERSITY

B.S. MATHEMATICS – COMPUTATION OPTION | MAY 2021 | UNIVERSITY OF IDAHO

 - Computer Science

Experience

SOFTWARE INTERN | TAP NETWORK LLC | JANUARY 2022 - ONGOING

- Collaborate with developers and other interns to create documentation for existing codebase.

GRADER | DR. RALPH NEUHAUS | SEPTEMBER 2019 – SEPTEMBER 2020

- Grade and correct all homework and deliver on time to the professor.

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

- C, C#, C++, Java

RELEVANT SKILLS

- Scrum and Agile Development, Linux

FAMILIAR PROGRAMMING SKILLS

- TypeScript, JavaScript, HTML, 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

- School Database Manipulation - SQL - https://github.com/malberda/BSU-HU-CS-310-Final-Project
    - A school database system emulating a real school

- 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