Michael Alberda

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Education

Boise State University Boise, ID
BS Computer Science *August 2021 | May 2023*

University of Idaho Moscow, ID
BS Mathematics - Computation Option, GPA: 3.5 *September 2017 | May 2021*

Experience

Tap Network LLC Boise, ID *Software Intern* *January 2022 | Ongoing*

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

Dr. Ralph Neuhaus Moscow, ID *Grader* *September 2019 | September 2020*

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

Treasure Valley YMCA Boise, ID *Head Lifeguard* *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

Proficient Programming Languages: C, C++, Java, Linux Shell

Familiar Programming Languages: TypeScript, JavaScript, HTML, Python, Unity

Other Relevant Skills: Scrum and Agile Development, Git Workflow

Projects

Reduction of States in a Finite Automaton C *https://github.com/malberda/cs385finalproject*
Created an adaptable demonstration of the concept of reducing states in a finite automaton.

Optimal Binary Search Tree JavaScript *https://github.com/malberda/project-395*
Created a simple visual demonstration of an optimal binary search tree's creation and maintenance.

CPU Scheduling Simulation Java *https://github.com/malberda/CPUSchedulingEmulator*
Emulated a simple CPU and its scheduling of processes using Java and a cache system.

School Database Manipulation SQL *https://github.com/malberda/BSU-HU-CS-310-Final-Project*
Created a database system and manipulated the data in it to simulate a school's database.

Data Structures Bioinformatics Java *https://github.com/malberda/BTree-BIOINFORMATICS*
Created a B-Tree that stores and performs operations on a series of excerpts of the human genome. This project implements a cache in order to speed up processing while searching the genome for frequencies of specific substrings.