Alec Otterson

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# Education

**Bachelor of Science in Computer Engineering Anticipated Graduation 2021**

*Brigham Young University-Idaho Rexburg, ID*

* Relevant coursework: Object Oriented C++, Data Structures, Digital Circuit Design, AI Development
* C++, Python, Java, Verilog FPGA simulation

**Midshipman July 2012 – Jun 2013** *United States Merchant Marine Academy Kings Point, NY*

* Marine Engineering Systems
* Rose up to standards of near-perfection in a fast-paced environment through the exercise of hard work, discipline, respect, and teamwork

# Experience

**Aerobi Fitness App June 2020 – May 2021**

*Aerobi Inc. Provo, UT*

* Collaborated within a scrum framework to outline, evaluate, and complete evolving project goals
* Researched, implemented, and tested machine learning algorithms to accurately determine and evaluate subject positions in live video footage
* Developed tailored annotation tools in Python and Javascript and coordinated usage of these tools with a team to generate thousands of data points for algorithm analysis
* Implemented a secure server connection and Docker container for remote training of algorithms

**Sonus-Ear Training Application for Android 80 Hours**

*Brigham Young University-Idaho Rexburg, ID*

* Coordinated and collaborated well with a team of three other developers to successfully plan and complete project checkpoints on schedule and to set specifications
* Utilized Java and Android Studio to build a program employing audio and visual cues and feedback to aid musicians in training their ears to accurately identify intervals and note placement on a scale

**Volunteer Representative in Viña del Mar, Chile July 2013 – June 2015**

*The Church of Jesus Christ of Latter-Day Saints Salt Lake City, UT*

* Assumed responsibility for specific sectors, networking, planning, and keeping careful records to ensure the continued development of the sectors in accordance with set goals and standards
* Developed fluency in Spanish via a disciplined study routine and diligent practice, resulting in effective communication and more meaningful connection with the Chilean people