

Jasen Ripley

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EDUCATION

University of Massachusetts Lowell

Lowell, MA

Candidate for a Bachelor of Science in Computer Science

December 2020

Minor in Mathematics

GPA: 3.8

Relevant Coursework: Artificial Intelligence, Mobile App Development, Machine Learning, Internet of Things, Analysis of Algorithms, Operating Systems, Organization of Programming Languages, Computing I-IV (OOP), Computer Architecture, Foundations of Computer Science, Assembly Language Programming, Logic Design, Discrete Structures I-II, Calculus I-III

Honors: Dean's List

St. Mark's School

Southborough, MA

High School Diploma

June 2016

Relevant Coursework: AP Computer Science, Robotics – Team Engineering Large Robots, New Media

SKILLS

Computer Languages: C++, C, Java, Python

Operating Systems: Windows 10, Mac OS, Linux

WORK EXPERIENCE

Draper Laboratories

Cambridge, MA

System Software Development and Test Co-op Student

January 2019 – September 2019

- Responsible for creating scripts to run nuclear missile simulations used to test mission critical requirements set in place by the United States Navy on the Trident II missile.
- Created multiple python scripts to help automate and document nuclear missile simulations by collecting information and data from older requirements to produce the least amount of run scripts that will pass the most requirements at once.

Marlborough Recreation Department

Marlborough, MA

Head Lifeguard

June 2014 – August 2018

- Provided a safe environment for patrons by enforcing the rules and guidelines of the department and demonstrated patience towards patrons while applying a positive attitude to help with any problems.
- Created a shift schedule and helped on the day to day basis by aiding fellow lifeguards.

ACADEMIC PROJECTS

Animate the Universe

- Efficiently coded velocity, acceleration, and net force equations in C++ to implement the gravitation pull on each planet to simulate the physics of our solar system.
- Presented creativity by creating multiple original universes that included not only one sun and planets, but also multiple stars, comets, and black holes to demonstrate what can happen when these objects are added.

Simon Says Alarm Clock

- Created an alarm clock using a Raspberry Pi and python code to require the user to be alert enough to complete a game of Simon Says to turn off the alarm, proving the user is fully awake.
- Implemented Bluetooth and Spotify capability to have custom playlists play on Bluetooth speakers.

Mobile Game Development

- Utilized Unity alongside a small group of classmates to create a mobile game that required users to use tilt controls to advance a sphere through a level while avoiding certain obstacles.
- Used built in features along with C# to create the levels for the game and physics of the sphere.

INTERESTS

Biking, Ice hockey, Building computers, Swimming