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### Technical Skills

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**Languages:** C/C++, HTML, CSS, JavaScript, TypeScript, Python, SQL, Visual Basic, C#, x86 & MIPS Assembly Languages

**Frameworks & Libraries:** Angular, React, Express, Node.JS, jQuery, Bootstrap, ASP.NET, Boost Test Library, SFML Library

**Relevant Coursework:** Computing (I-IV) w/ Lab, GUI Project Sequence (I & II), Computing for Health and Medicine, Intro to OS, Computer Architecture, Organization of Programming Languages

**Familiar Technologies and Software:** Visual Studio/VSCode, Git, MongoDB, XCode, Linux, MacOS, Windows

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### Professional History

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Massachusetts Water Resource Authority, *Chelsea MA* – June 2021 to January 2022

#### **Full Stack Development and Information Technology Intern**

- Tasked with developing websites to be used on the MWRA internal network for employees to use
- Utilized classroom knowledge of HTML, CSS, and JavaScript in a real world environment, along with learning about ASP.NET, Visual Basic, C#, and SQL
- **Main Project - Employee Directory**
  - Website hosted on the MWRA internal network where a user can input search terms to find information about MWRA employees
  - Connects to and queries an SQL database, then prints results of the user's search onto a new page where results are neatly formatted
  - Responsible for both client side and server side development
  - Written with Visual Basic, C#, HTML, CSS, JavaScript and SQL in the ASP.NET framework, along with using the Bootstrap CSS Library and jQuery JavaScript Library
- IT responsibilities include: troubleshooting user errors, installing various hardware/software, updating status of work orders/assets, imaging new computers and laptops

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### Personal Projects

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#### ***Politician Stock Tracker - Backend Developer***

- GUI class project; website designed to track financial moves of politicians
- Built using the MERN stack - MongoDB, Express JS, React, NodeJS
- Responsibilities include API Calls for stock data, MongoDB database queries and automated data management, setting up Node.js backend to link React front end code with backend, hosting on Heroku
- Github used as version control, submitted pull requests and reviewed pull requests of other team members

#### ***Evil Hangman***

- A game of hangman where the computer will always win due to the computer constantly changing the selected word, based on a 100,000-word dictionary which was implemented with vectors
- Written with C, implemented the vector data structure from scratch
- Utilized a binary search tree to analyze the remaining words to find the best option for the new word

#### ***Solar System Simulation***

- Created a graphical simulation of the solar system, where a sprite's movement is calculated based off of the gravitational forces of other solar system objects as well as their position
- Written in C++ using the SFML Library, as well as implementing various classes and polymorphic functions

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### Education

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**University of Massachusetts: Lowell** – Bachelor of Science in Computer Science

**GPA:** 3.5/4.0

**Expected Graduation:** May 2023

**Awards:** Dean's List for 4 Semesters