

Maxwell Zimmer

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EDUCATION

Oregon State University

Corvallis, OR

B.S. Computer Science, Specialization in Data Science, GPA: 3.4/4.0

2020-2024

- **Relevant Coursework:** Analysis of Algorithms, Intro to Artificial Intelligence, Introduction to Computer Networks, Data Structures, Web Development, Operating Systems, Object Oriented Programming, Operating Systems, Calculus 1, Calculus 2, and Calculus 4.

SKILLS

Programming Languages: C/C++, Python, JavaScript, CSS, HTML5, MySQL, R, Power BI

EXPERIENCE

Forest Investment Associates

Vancouver, WA

Software Development Intern

June 2022-Nov 2022

- Utilize python to perform data cleaning, improve readability for all users, and automate the upload into a user viewable database on a dataset given monthly.
- Leverage R Programming language to transfer millions of data points from excel into Azure SQL.
- Develop relational MySQL databases from the ground up, while having full autonomy from the development of the database schema to the final database implementation.
- Writes at least 100 lines of code a day to save the company numerous hours by limiting the manual work done by other employees by utilizing Python, R, and Azure SQL for automation.
- Use Power BI to give revealing explanations of the Azure SQL database so all people, technical and non-technical, can benefit from the database I created.
- Earned a 2 term internship extension (Fall and Winter) due to my strong work ethic and high performance.

Oregon State App Development Club

Corvallis, OR

Back-End Development Team

Sep. 2021-March 2022

- Collaborated with a 12 person group to create a fully developed application each term.
- Utilized machine learning with python to make predictions on product success.
- Acted as the leader for the backend team and collaborated with team members to effectively create various web application features.
- Requires quickly learn new techniques and skills for each app as the product is different each term

PROJECTS

Smallsh

- Created my own shell written in C, able to run numerous command line instructions.
- Shell allows for the redirection of standard input and standard output processes while also supporting foreground and background processes.
- Has tools of cd, ls, and exit.
- Compiles code and runs scripts. Also supports comments in the command line.

TicTacToe with MiniMax

- A pretty UI/UX developed in JavaScript, HTML, and CSS to create a user vs AI game (can play on my website)
- The AI uses the MiniMax game theory algorithm by adding a value to all possible moves in a binary search tree then choosing the move that maximizes the AI move while minimizing the user's move.

Hunt the Wumpus Game

- 2000 lines of code written in C++ using Object Oriented Programming.
- Utilized polymorphism, encapsulation, inheritance, and abstraction.
- Created a friendly user interface in the UNIX environment to allow the user to seamlessly play my created game.

LEADERSHIP EXPERIENCE

Delta Chi Fraternity (Oregon State Chapter)

Corvallis, OR

Executive Board, Recruitment Chair

Sept 2021. – Jun. 2022

- Organized all recruitment efforts and various recruitment type events by revitalizing the program with a new team-based approach which increased chapter membership by 25%.