

# JOHN HENRY S. WARD

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## EDUCATION

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### Western Washington University

Bachelors of Science in Computer Science, Minor in Mathematics

Bellingham, WA

Sept. 2017 – December 2021

- Coursework: Object Oriented Design, Databases, Operating Systems, Data Structures and Algorithms, Networks

## EXPERIENCE

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### Computer Science Peer Mentor

Western Washington University

September 2019 – June 2021

Bellingham, WA

- Assisted Computer Science students with lab work, homework, and general Computer Science assignments
- Exercised communication skills by assisting students in their understanding of Computer Science fundamentals
- Improved students experience by being a useful resource to those in the Computer Science community

## PROJECTS

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### Instructor Efficiency Web Tool | JavaScript, Node.js, Express.js, HTML, CSS

January 2021 – December 2021

- Collaborated with a team to build a web tool to visualize data taken from a previous Machine Learning project
- Handled front and back end technologies to develop a website using Node.js and Express
- Planned weekly sprints with team and project manager using an Agile Scrum framework
- Obtained a deeper understanding of web development technologies like JavaScript, Node.js, and Express.js

### Buy Better | JavaScript, Express.js, API's, HTML, CSS

September 2021 – December 2021

- Acted as project manager for web based tool to divert users from shopping on Amazon to buying at local stores
- Integrated API's into project to provide store data in a user's local area
- Delegated tasks to team members to complete during weekly sprints
- Applied ICT for social good principles while researching and developing the project

### Deadwood | Java, OOP, Git

January 2019 – April 2019

- Developed a GUI based board game using object oriented designs and various design patterns
- Planned with a team member to manage the work load and upcoming deadlines
- Achieved a greater sense of the development process through planning, designing, and implementing a working software project
- Gained communication skills through pair programming

### Movie Script Sentiment Analysis | Python, NLP

March 2021 – June 2021

- Utilized Natural Language Processing tools to analyze movie scripts and perform sentiment analysis
- Researched studies on story telling structures to develop an algorithm that produces graphs based on a movie scripts relative happiness
- Presented my findings to a class and developed a research paper discussing my process and results

### MicroShell | C, UNIX

April 2019 – June 2019

- Constructed a Microshell that processes command line arguments similarly to a bash shell
- Implemented argument parsing by using C system calls as well as pointers and arrays
- Handled command line expansion by processing arguments given through the terminal
- Utilized C library calls to service built in commands that execute specific shell functions

## TECHNICAL SKILLS

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**Programming Languages:** JavaScript, Java, Python, PHP, C, HTML, CSS

**Other Tools:** SQL, Node.js, Express.js, npm, Git, VS Code, Linux, Emacs, Agile, Scrum