Josie Thompson

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Education Experience

B.S. in Computer Science
B.A. in Mathematics
> University of Washington (2022)
> Seattle, Washington
> Working toward degrees

A.S. in Electrical and Computer Engineering
> Tacoma Community College (2019)
> Tacoma, Washington

Programming Experience

Skilled in technologies
> Python, C/C++, Java/C#, javascript

tess
> https://github.com/josiest/tess
> Small library for working with hex maps

- Implemented algorithms for working with unique mathematical norms in C++
- Used unit-test design to write well-covered tests
- Wrote clear and easy-to-read documentation complete with visual examples and tutorials.

ion library
> https://github.com/josiest/ion
> A framework for RAII with SDL

- Designed and implemented various handlers for various game resources such as windows or images
- Implemented a small-scoped event-handling interface to allow for flexible video game system implementation
- Wrote a series of interesting example games used to createively showcase the abilities of the library

Work Experience

Teaching Assistant
> Software Design and Implementation
> Paul Allen School of Computer Science
> March 2021 - December 2021

- Used console applications to publish course assignments within a tight schedule
- Managed organization for grading assignments for a class of nearly three hundred students
- Resolved dozens of special case problems with student homework submissions per week

Research Assistant
> Robot Learning Lab
> Paul Allen School of Computer Science
> March 2021 - June 2021

- Read through many recent peer-reviewed papers in order to have a good grasp of the problem at hand
- Implemented complex algorithms in order to further push knowledge of the concepts in these research papers
- Used advanced machine learning libraries in python to conduct experiments on the concepts we studied
- Wrote extensive documentation and established organized project structure in order to maintain a practical environment

Lab Assistant
> University of Washington Herbarium
> September 2019 - December 2019
> https://github.com/josiest/Flora-Data-Extraction

- Used regular expressions to extract geographical information from text
- Used python to transform text data from pdfs to csv data
- Designed a console interface to easily be able to process multiple pdf files with relatively arbitrary directory structure