

Josie Thompson

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Education Experience

Goal: To start a career in the software industry

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, typescript

Hax and mapgen

<https://github.com/josiest/hax>

<https://github.com/josiest/mapgen>

Small libraries 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

Pygtails Library

<https://pygtails.readthedocs.io/en/latest/>

Event-handler for Python's Pygame library

- Implemented event-handling interface
- Used Sphinx and reStructuredText to write and compile original tutorials and clear documentation
- Published module to Python Package Index

Work Experience

Teaching Assistant

Software Design and Implementation
Paul Allen School of Computer Science
March 2021 - present

- 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 - present

- 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 an 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