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 (2021)
Seattle, Washington
Working toward degrees

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

Work Experience

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

Internationally Certified Tutor
Computer science and mathematics
July 2018 - August 2019

- Helped students understand new concepts
- Encouraged critical thinking by asking leading questions

Supplementary Instruction (SI) Leader
Computer science
March 2019 - August 2019

- Planned SI sessions that encouraged collaborative learning
- Facilitated group discussion to reflect on new material
- Designed creative activities that reinforced class material

Programming Experience

Skilled in technologies

- Python, C/C++, Java, Mathematica, Matlab

Hax and mapgen
https://github.com/josiest/hax
https://github.com/josiest/mapgen
Small libraries for working with hexagonal 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

404
https://github.com/josiest/404
Virtual art piece on the concept of Utopia

- Used lua and love2d to create a new media art piece reflecting on the definition of Utopia
- Used mathematical models of electricity and friction to emulate an imagined force

Extracurricular Activities

Programming Club
Treasurer
January 2018 - June 2018

- Presented a lecture on programming languages
- Held decisions on club purchases
- Helped in organizational decisions