Josie Thompson

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Education Experience

Goal: To earn a PhD in mathematics

University of Washington
Seattle, Washington
Working toward bachelor's
B.S. in computer science
B.A. in mathematics

Tacoma Community College
Tacoma, Washington
A.S. in electrical engineering

Tacoma School of the Arts
Tacoma, Washington
Songwriting and audio recording
High School Diploma

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 with leading questions

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

- Planned and held SI sessions
- Encouraged collaborative learning
- Facilitated group discussion

Programming Experience

Skilled in technologies

- Python, C/C++, Lua

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++
- Wrote well-covered tests
- Wrote clear documentation

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