

Virginia Gallagher

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EDUCATION

University of Oregon – *Bachelor of Science in Computer Science, Minor in Business Administration*

Eugene, Oregon

- Cumulative GPA: 3.96. Magna Cum Laude. Clark Honors College. Departmental Honors.
- Hubbard Award Recipient for work in computer graphics.

RELEVANT COURSEWORK

Algorithms, Computer Graphics, Computer Organization, C++ and Unix, Data Structures, Discrete Math, Elementary Numeric Analysis, Linear Algebra, Operating Systems, Programming Languages, Software Methodologies, Scientific Visualization.

TECHNICAL SKILLS

Python • C/C++ • SQL • JavaScript • HTML • CSS

PROJECTS

Automating Camera Placement for Scientific Visualization

- Conducted research for 12 months on automating the selection of camera placement in scientific visualization for undergraduate thesis.
- Rendered 90 iso-surfaced images of nine large-scale scientific data sets using VisIt visualization software.
- Utilized Ascent analysis library to run analysis on images using 11 viewpoint quality metrics.
- Rebuilt survey website using Django to simplify website logic and improve reliability of data collection.
- Wrote 37-page thesis on the process and results of my research.
- Defended my findings to a panel of four experts in the computer graphics field.

Freedge Tracker

- Developed a Python application to track active locations of community refrigerators for a non-profit organization called *Freedge*.
- Met with founders of *Freedge* to develop project specifications based on their needs and our project timeline.
- Utilized Python's tkinter library to create user-friendly GUI for tracking community refrigerators.
- Used SQLite database connection to manage and manipulate csv file of refrigerator data.

RELEVANT WORK EXPERIENCE

intoCareers

Eugene, Oregon

Research Assistant

October 2019 – June 2023

- Conducted daily usability and exploratory quality assurance testing on two websites.
- Communicated clear and detailed descriptions of discovered website bugs to software developers through GitHub issues.
- Evaluated and updated data for 1,000+ schools and universities presented on intoCareers websites.
- Updated attributes for 2,500+ career descriptions featured on websites.
- Designed and composed educational and instructional video tutorials to demonstrate usage of career programs for elementary, middle, and high school users.

University of Oregon Computer Science Department

Eugene, Oregon

Teaching Assistant

January 2021 – March 2021

- Demonstrated computer science concepts and programming syntax to first- and second-year computer science students.
- Designed new approaches to homework and class assignments to meet project specifications with students in one-on-one meetings outside of class.
- Aided 5-10 students weekly with debugging and completing eight course projects.