

Virginia Gallagher

541-525-2550 | ginni.gallagher@gmail.com | [linkedin.com/in/ginni-gallagher](https://www.linkedin.com/in/ginni-gallagher) | gingalla.github.io

EDUCATION

University of Oregon

Sept. 2019 – June 2023

Bachelor of Science in Computer Science, Minor in Business Administration

Eugene, OR

- Cumulative GPA: 3.96
- Magna Cum Laude, Clark Honors College, Departmental Honors, Hubbard Award Recipient

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Django

Developer Tools: Git, VS Code, Visual Studio, PyCharm

Libraries: NumPy, Matplotlib

Project Management: Microsoft Office Suite, Slack, Trello, Confluence, Agile Methodologies

PROJECTS

Strava Tracker | *React, Node.js, MongoDB, Strava API*

July 2024 – Present

- Developed a full-stack web application with a Node.js backend and a React frontend
- Implemented OAuth with Strava API integration for secure user data retrieval

Automating Cameras in SciVis | *Python, HTML/CSS, SQL, Django*

May 2022 – Jan. 2024

- Conducted innovative research on automating camera placement in scientific visualization
- Utilized VisIt visualization software to render iso-surfaced images and Ascent analysis library to run image analysis
- Reduced code complexity of data collection website by 40%, improving efficiency and future usability
- Presented findings in a 37-page thesis and successfully defended before a panel of computer graphics experts

Freedge Tracker | *Python, SQL*

May 2022 – June 2022

- Collaborated in a small-team environment with Freedge stakeholders to outline desired features and user requirements for capstone project
- Utilized Python tkinter library to create user-friendly GUI for tracking community refrigerators

RELEVANT EXPERIENCE

Research Assistant

Oct. 2019 – June 2023

intoCareers

Eugene, OR

- Conducted daily usability and exploratory quality assurance testing, identifying and documenting over 100 bugs and improving website reliability and user experience
- Communicated clear and detailed descriptions of discovered website bugs to software developers through GitHub
- Updated attributes for 2,500+ career descriptions featured on website
- Designed instructional video tutorials, enhancing user engagement and understanding of career programs

Computer Science Teaching Assistant

Sep. 2021 – March 2021

University of Oregon

Eugene, OR

- Facilitated understanding of core computer science concepts for first- and second-year students, mentoring them through complex problem-solving processes
- Assisted in debugging and project completion for up to 10 students weekly, fostering a collaborative learning environment and improving student success rates

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