

# Aditi Thanekar

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## Education

### University of California - Riverside

*BS+MS in Computer Science*

Riverside, California

*September 2022 - June 2026*

**Organizations:** Society of Women Engineers(SWE), Association of Computing Machinery(ACM), UCRAas

## Experiences

### Lawrence Livermore National Laboratory

*Computing Intern | NIF*

Livermore, California

*June 2024 - Present*

- Developed new component with C++ to group existing laser simulation components, reducing Qt cold start time 30%
- Enabled reuse of component chains across simulations reducing pipeline creation by 60%
- Worked closely with physicists to ensure the software met their functional requirements and scientific specifications
- Wrote documentation and training materials in LaTeX for users to learn to use new component
- Led live user training for ~20 people, addressing technical questions, and provided hands-on guidance

### University of California, Riverside

*Chief Grader | Data Structures and Algorithms - Professor Patrick Miller*

Riverside, California

*April 2023 - Present*

- Managed gradebook for 1000+ students, and directed tasks amongst 12 people ensuring timely release of grades
- Reduced input time from 1 hr to 7 min/assignment, by creating Python program mapping scores to Canvas gradebook
- Held 4 hours of weekly in-person demos/code reviews to assess student's understanding
- Conducted over 200 C++ code reviews, grading on readability, efficiency, memory usage and best practices

### Aspiring Scholars Directed Research Program

*Bioinformatic Researcher | Advisor: Clinton Cunha*

Fremont, California

*June 2021 - November 2021*

- Implemented program to normalize cancer cell data and order by p-value to find significantly expressed genes in R
- Created dot plots and gene-set enrichment maps, and found a pattern in change in taste perception phenotype
- Led meetings alongside an advisor to interpret plot data and debug code
- Presented at Global Alliance for Genomics and Health 9th Plenary Meeting and SCCUR

## Projects

### Packaroo Express | Python, Tkinter

[github.com/aditithanekar/packarooExpress](https://github.com/aditithanekar/packarooExpress)

- Devised solution to minimize crane movement for loading, unloading, and balancing containers at a port using A\* search
- Developed and integrated a Python backend with a Tkinter GUI for interactive container operations with visualizations

### My Favorite Story | C++, Git, Github, Valgrind, GTest

[github.com/aditithanekar/My-Favorite-Story](https://github.com/aditithanekar/My-Favorite-Story)

- Implemented classes & tests for a choose your adventure game with horror and rom-com themes, debugged with Valgrind
- Hosted scrum meetings, completed sprints each week, and delegated tasks on a Kanban board with a team of 4

## Leadership

### Girls Who Code

*President/ WHS Hackathon Director*

Fremont, California

*August 2020 - June 2022*

- Created 9 lesson plans and taught web development at meetings to over 25 members using HTML, CSS and Figma
- Organized and emceed a school-wide hackathon for online(2021) and in-person(2022) and mentored groups

### Washington High School Husky Band

*Marching Band Drum Captain/ Wind Ensemble Percussion Section Leader*

Fremont, California

*August 2018 - June 2022*

## Technical Skills

**Languages:** C++, Python, Java, HTML, CSS, R, Swift

**Developer Tools:** Git, Github, VSCode, GTest

**Design Tools:** Adobe Illustrator, Figma, SolidWorks, Autodesk Maya

**Relevant Coursework:** Artificial Intelligence, Parallel Programming, Computer Graphics, Data Structures/Algorithms