

Kody Takada

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EDUCATION

University of Michigan

Bachelor of Engineering in Computer Science/Minor in Chemistry

GPA: 3.77/4.00

Relevant Coursework: Web Systems, Data Structures and Algorithms, Assembly-Language Programs, Computational Theory, Thermodynamics, Fluid Mechanics

Ann Arbor, MI

May 2024

WORK EXPERIENCE

The Glotzer Group at the University of Michigan

Intern

Ann Arbor, MI

May 2022 - August 2022

- Implemented the relative angular distance (RAD) algorithm in the python package HOOMD which reduced neighbor-list calculations by 10%.
- Adjusted the CLI in the software to achieve readable output for simulation properties. Refactored python tests by introducing the pytest framework for easier debugging.

Michigan Mars Rover Team

Science Subteam Member

Ann Arbor, MI

August 2021-August 2022

- Engineered on the multidisciplinary competition-oriented team to compete in the University Rover Challenges.
- Introduced spectroscopy and life-detecting experiments which achieved a perfect score at competitions.

PROJECTS

Instagram Clone | *Python, Javascript, HTML/CSS*

- Implemented a SQLite backed instagram clone with dynamic pages using AWS. Using REACT, the clone works with the REST API giving the user all the functionalities of Instagram.

Euchre | *C++*

- Coded a CLI implemented euchre simulation. Using object-oriented programming, the user can simulate a full game.

Task List | *Javascript*

- Designed an interactive front-end task list using Javascript that allows the user to create, edit, and delete tasks in HTML.

LEADERSHIP

Global Health Charities (GHC)

Co-Founder/President

- Founded the student chapter of the nonprofit GHC with the goal that all human beings should have the opportunity to strive for their full potential.
- Organized volunteering events that impacted over 17 countries and 200 women with the local community.

American Institute of Chemical Engineers (AIChE)

Secretary

- Two-year executive board member of the national professional organization for Chemical Engineers.
- Prepared weekly meeting agendas and communicating professional updates of over 400 members.

SKILLS/VOLUNTEERING

Programming Languages: C++/C, Python, HTML/CSS, Javascript, Matlab, R

Skills: Git, ReactJS, SQLite, Linux, R-shiny, Wet Lab and Basic Machine Workshop Trained

Volunteering: 150+ hours with Global Health Charities, American Red Cross, Caleb White Foundation, United 2 Heal, Youth Movement Against Alzheimer