

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, Organic Chemistry

Ann Arbor, MI

May 2024

EXPERIENCE

DeveloperDB

Data Analytics Intern

Sunnyvale, CA

May 2023 - Present

- Implemented Selenium web scraping to gather extensive data from recruiting websites. Employed a refined algorithm to precisely ascertain the expected salary range of tech recruits.
- Created a normalization algorithm for large 600,000+ item datasets using RegEx and fuzzy matching.
- Analyzed and built figures to model the datasets using Seaborn to determine trends for future data ingestion.

The Glotzer Group

Software 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.

PROJECTS

Search Engine | Python, hadoop, HTML/CSS

- Designed a scalable search engine in Python, incorporating RESTful API practices, to deliver accurate search results based on user queries through page analysis and tf-idf calculations.
- Implemented a Service-Oriented Architecture approach, leveraging the Hadoop framework, to calculate an inverted index of pages, enabling efficient retrieval for improved search performance
- Utilized Hadoop to generate an inverted index, enhancing search performance and retrieval efficiency

Movie Recommender | Python, HTML/CSS

- Built a Flask-based movie recommender with advanced filtering options for genre, rating, and release year, enhancing user interaction and providing personalized film suggestions.

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.

LEADERSHIP

Global Health Charities

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 local volunteering events that impacted over 17 countries and hundreds of women.

Sling Health at the University of Michigan

Managing Director

- Managed executive board communication with 100+ members, improving organizational collaboration
- Responsible for coordinating sling events and competitions, including third-party site management

SKILLS/VOLUNTEERING

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

Skills: Git, ReactJS, flask, hadoop, SQLite, WSL Linux, Selenium, AWS, selenium, excel, shell scripting

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