Jordan Wells

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EDUCATION

Bachelor of Science, Chemical Engineering Honors, August 2019 – May 2023
Elements of Computer Science Certificate
The University of Texas at Austin
Overall GPA: 4.00/4.00

PROJECTS

Where Should I Eat
https://whereshouldieat.app, August 2022
- Developed a web application in React to help 200+ daily users find restaurants based on their cravings
- Utilized the Yelp API to find well-rated restaurants in a user-defined location
- Demonstrated technical knowledge through a Medium blog post reaching thousands of viewers

They're a 10 but...
https://10but.jordantwells.com, July 2022
- Built a full-stack web application with TypeScript and React based off a popular TikTok trend
- Created a Redis database for storing user prompts and ratings in a JSON format

Vibesition
https://vibesition.jordantwells.com, June 2022
- Designed a user-friendly website using Next.js that generates mood playlists for users based off inputted songs
- Implemented an authorization flow for users to log-in with Spotify using the Spotify API

EXPERIENCE

Undergraduate Research Assistant
Ellington and Alper Labs, University of Texas at Austin, November 2019 – Present
- Design antibody-SARS-CoV-2 interfaces computationally with Rosetta and deep learning methods to determine potentially beneficial mutations.
- Create data pipelines for self-supervised 3D Convolutional Neural Network inputs
- Write Python protocols to convert a neural network prediction into 10,000s of efficient, orderable DNA primers
- Utilize high performance computing systems such as the Texas Advanced Computing Center

Rosetta Commons Summer Research Intern
University of Colorado Boulder, June 2021 – August 2021
- Developed scripts to rapidly test more than 10,000 small molecule drugs for protein binding using Python
- Applied the Rosetta protein folding software suite to add allosteric control to medically important enzymes
- Communicated with other project leads to add features and implement the protocol in their protein systems
- Generated, organized, and analyzed ligand to protein interaction Pandas DataFrames with 2 million entries

SKILLS

- Data Science (Python, TensorFlow, NumPy, Pandas, Matplotlib, Altair)
- Full Stack Web Development (JavaScript, TypeScript, React, Node, Next.js, tRPC, Three.js, SQL, HTML, CSS)
- Scientific Computing (MATLAB, Rosetta Commons Protein Folding Software)
- Programming Tools (Git, GitHub, Docker, Singularity, HPC)

Positions: UT ChE (Teacher's Assistant, Grader), Texas AIChE (Freshman Rep, Service Chair), Texas OXE (Secretary)
Personal interests: Volleyball, Rock Climbing, Cooking, Programming, Writing