Jordan Wells

jordantwells.com

jordantwells@gmail.com, 281-608-1825

EDUCATION

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

EXPERIENCE

Software Engineering Personal Projects, jordantwells.com
● Engineered a web application using the Yelp API and React with more than 500 daily users (whereshouldieat.app)
● Developed a user-friendly website using the Spotify API and Next.js that curates "mood" playlists for users (vibesition)
● Built a full-stack web application with TypeScript, React, and Redis based off a popular TikTok trend ([10but](10but))

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 input generation
● Write Python protocols to convert model output into 10000s of efficient, orderable DNA primers for protein engineering
● Utilize high performance computing systems such as the Texas Advanced Computing Center alongside containerization tools such as Docker and Singularity

VI Next Tech Development Intern, Regeneron Pharmaceuticals, June 2022 – August 2022
● Led the creation of recombinant proteins for exploratory technical development of a new class of medicinal biologics
● Analyzed DNA, bacterial, mammalian, and protein samples using a wide variety of biotechnology tools
● Communicated with other researchers to eliminate sources of error and noise and improve signal

Rosetta Commons Summer Research Intern, University of Colorado Boulder, June 2021 – August 2021
● Developed software 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 implement the protocol into their protein systems.
● Generated, organized, and analyzed ligand to protein interaction datasets 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)
● General Programming (Git, GitHub, Docker, Singularity, HPC)

POSITIONS

Freshman Representative and Service Chair, Texas AIChE
Secretary, Texas OXE, Chemical Engineering Honors society
Teaching Assistant, University of Texas at Austin (Chemical Engineering Analysis and Reactor Design)
University and Engineering Honors

Personal interests: Volleyball, Rock Climbing, Cooking, Programming, Writing