

Stephen Davis Owen

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EDUCATION

University of Texas at Austin, Austin, TX
Bachelor of Science, Physics Option II: Computation May 2018
Minors, Elements of Computing, Business Foundations May 2018
QSI International School, Shekou, China
High School May 2014

COMPUTER SKILLS

Languages: Python (numpy, pandas, matplotlib, scikit-learn), Java, C++, Bash, PHP, SQL, R, Matlab, \LaTeX .
Web Development: Python-Flask, SQLAlchemy, HTML, CSS, Apache, JavaScript
Applications: Vi/Vim, Git, MySQL
Operating Systems: Unix, Linux: Debian, Redhat

EXPERIENCE

Undergraduate Student Researcher **The Institute for Computational Engineering and Sciences**
Austin, TX
May 2017-August 2017

- Researched and summarized previous methods used to refine x-ray crystallography derived protein-protein and protein-ligand structures
- Ran previously developed methods/ programs on a subset of the protein data bank (PDB) in parallel on the TACC supercomputer Stampede and aggregated results
- Rewrote energy calculation programs in python to create an atom-atom pairwise energy profile of structure to determine areas of interest in proteins, using Lennard Jones 6-12 and Coulomb potentials
- Used python and bash in a Linux Red Hat environment for all tasks

Founder

HawkCo
Austin, TX

January 2017-January 2018

- Founder of Fidget Spinner Resale Business on Amazon
- Maintained communications with wholesalers in China to negotiate pricing and shipping to Amazon fulfillment centers
- Created instagram page and website for marketing

Summer Assistant

Straus Systems
Stafford, TX

May 2015-August 2015

- Learned basic drawing in AutoCAD 2016
- Helped sorting and unpacking shipments in sheet metal shop
- Did clerical work in all areas

ACTIVITIES

FollowBack.org: FollowBack.org is a SaaS web application built by myself from the ground up. It is an Instagram Bot which allows users to customize and submit a Bot to my server where it will run. Built using the Python-Flask framework on the back-end. Front-end designed with typical front-end stack HTML, CSS, and Javascript. Currently in development and not yet released first production release. Using Git for version control.

HackChat Led team in a data-science geared Hackathon competition hosted by USAA and UT McCombs to develop a model to predict labels for chat logs. Used python, pandas, and sci-kit learn to train K Nearest Neighbors and Random Forest Classifiers. Taught techniques to teammates with little experience

Github

<https://github.com/DavisOwen>

Includes my code for my research internship, and personal repository for algorithmic trading research for trading on the stock market.