

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, Python-Django, SQLAlchemy, HTML, CSS, Apache, JavaScript, JQuery, React/Redux
Applications: Vi/Vim, Git, MySQL
Operating Systems: Unix, Linux: Debian, Redhat

EXPERIENCE

Undergraduate Student Researcher **The Institute for Computational Engineering and Sciences**
May 2017-August 2017 Austin, TX
-Wrote 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
-Ran program pipelines on Stampede supercomputer using Bash and Python for pipelines, and gathered and summarized resulting data using Matplotlib and pandas.
-Researched and summarized previous methods used to refine x-ray crystallography derived protein-protein and protein-ligand structures
-Used Python and Bash in a Linux Red Hat environment for all tasks

Founder **HawkCo**
January 2017-January 2018 Austin, TX
-Founder of Fidget Spinner Resale Business on Amazon
-Created website for marketing and used previously developed followback.org Instagram bot to market company on Instagram.
-Maintained communications with wholesalers in China to negotiate pricing and shipping to Amazon fulfillment centers

Summer Assistant **Straus Systems**
May 2015-August 2015 Stafford, TX
-Learned 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. Used 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

Portfolio Site
<http://davisowen.com>