

DANNY SIU

Data Scientist

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EDUCATION

University of California at Berkeley

Major: Data Science Graduation Date: June 2021
Coursework: Discrete Mathematics and Probability Theory,
Data Structures, Designing Information Devices and Systems,
Principles and Techniques of Data Science,
Probability for Data Science

Lamar High School

Valedictorian of Class of 2017

EXPERIENCE AND PROJECTS

University of Texas at Austin

Austin, TX

Summer Researcher

June - Aug. 2016

- Optimized catalysts for efficient energy production through molecular modeling by using Python libraries, modeling software, and running scripts;
- I computationally simulated carbon monoxide binding on gold-palladium nanoparticles during oxidation-reduction reactions

June - Aug. 2015

- Conducted neurological experiments on spiders, learned research lab techniques, & explored different scientific research studies with professors

Personal Project on Password Security

Arlington, TX

Project Researcher

Oct. - Dec. 2013, Oct. - Dec. 2014

- Analyzed different methods of password targeting and created a password checker that utilized pattern recognition and dictionary matching to test the strength of passwords

Arlington Chinese Church

Arlington, TX

Video & Audio Technician

Sept. 2010 - May 2017

- Supported the church worship team by setting up stage equipment and controlling the multi-channel soundboard and computers during worship services
- Familiar with maintaining projectors, microphones, and monitors, as well as running technical rehearsals;
- Experience with projecting slides and house lighting

Arlington Chinese Church

Arlington, TX

Library Team Leader

Sept. 2014 - May 2018

- Served customers at the desk with borrowing & returning items, filed shelves, and oversaw a team of volunteers

SKILLS

Programming Languages:

Python and libraries (Pandas, Seaborn, SciPy, NumPy, Matplotlib, SciKit-Learn),
Java, Scheme, SQL, HTML

Software:

Autodesk Inventor, modeling software

Tools and Frameworks:

Linux, HTML, GitHub, Website Design

AWARDS

- Intel Award of Excellence at Fort Worth Intel Science & Eng. Fair (2015)
- 1st place in Computer Science Division at Fort Worth Intel Fair (2015)
- 2nd place in Autodesk Robotics Sustainable Design Challenge (2014)
- National Merit Scholar (2017)
- Young Achiever Award from the Chinese Institute of Engineers (2015)

EXTRACURRICULAR ACTIVITIES

Mindbenders Club

President & Founder

Sept. 2015 - May 2017

- Solved & taught puzzles (riddles, Rubik's cubes, ciphers, etc.), Created a website, Hosted socials and fundraisers

Key Club

President

Sept. 2016 - May 2017

- Arranged 32 service events & contacted 16 volunteer organizations

Arlington Chinese Church Youth Leadership Team

Worship Leader

Sept. 2015 - May 2017

- Served on my youth group's worship team

Intramural Soccer & Volleyball

Sept. 2017 - Present

- Plays soccer & volleyball with friends