# Olin Zhou

COMPUTER SCIENCE MAJOR · BUSINESS MINOR · TEXAS A&M UNIVERSITY

☐ (+1) 469-258-4537  |  ✉ olin.zhou.0@gmail.com  |  ⌂ www.olinzhou.com

## Education

**Texas A&M University**                                                                                      *College Station, TX*

B.S. IN COMPUTER SCIENCE, MINOR IN BUSINESS                                                      *August 2017 - May 2021*

- GPA: 3.866

## Skills

| | |
|---:|:---|
| **Languages** | Java, JavaScript, C++, Python, MATLAB, SQL, Bash |
| **Web Development** | React, Node.js, Express.js, Bootstrap, HTML, CSS |
| **Tools** | Jupyter Notebook, MySQL, AWS Lambda/API Gateway, Unix, OpenStack |

## Experience

**MathWorks**                                                                                                      *Natick, MA*

EDG INTERN                                                                                              *May. 2020 - Aug. 2020*

- Developed interactive prompts using **bash** that automate and optimize MathWorks' platform testing process of creating **OpenStack** instances which host MATLAB **containers**.
- Accelerated MathWorks' platform testing process by **50%**.
- Developed a web UI with **React** and a **GlassFish Java API** to display and filter **500,000+** testing jobs in MathWorks' internal **SQL** database based on operating systems, clusters, MATLAB release versions, and date.

**Tyson Foods**                                                                                              *Springdale, AR*

FULL STACK INTERN                                                                                      *May. 2019 - Aug. 2019*

- Built a **full-stack cloud-native** web application using **React**, **NodeJS**, and **SQL** to enable collection of incident statistics from delivery fullfillment personnel.
- Utilized **AWS Lambda** and **Aurora DB** for cloud deployment and scaling.
- Impact spans over **100,000** forms submitted per year used for analysis and training.
- Led biweekly meetings with client to discuss project progress and requirements.

**Texas A&M University**                                                                                  *College Station, TX*

UNDERGRADUATE TEACHING FELLOW (NEWTONIAN MECHANICS)                              *Jan. 2019 - May. 2019*

- Led weekly classes that guided 20+ underclassmen to understand physics concepts related to mechanics by diving deep into physics problems and holding review sessions

## Projects

**Presidential Candidate Tweet Classifier**                                                          *Oct. 2020*

SCHOOL PROJECT

- Engineered an **ensemble machine learning model** (**KNN**, **Naive Bayes**, **Random Forest**) to classify Trump's and Biden's tweets utilizing **Google Colab** and **Python**.
- Yielded accuracy of 98%, precision of 98%, and recall of 99%.
- Led a team of three through the process of data cleaning, data analysis, model training/testing, and deployment.

**Stock Price Pager**                                                                                          *Jan. 2020*

PERSONAL PROJECT

- Designed a web application with **React** and **NodeJS** that alerts users through text messages and/or phone calls based on the desired price of a given ticker.
- Leveraged **IEX Cloud API** for stock prices and **Twilio API** for user alerts.

**Road Conditions**                                                                                            *Sep. 2019*

PERSONAL PROJECT

- Engineered a web application using **React** and **NodeJS** to map predicted weather forcasts to a user's trip schedule.
- Developed a custom algorithm to calculate and indicate expected weather per 30 minute interval on a user's trip.
- Leveraged **Open Weather API** for weather details and **Google Maps API** for trip routes.

**Discord Voice and Image Bot**                                                                        *Jan. 2019*

PERSONAL PROJECT

- Created a bot that searches through Reddit using **Python** for images and/or gifs and sends relevant content to users with chat commands.
- Supports custom voice files/reactions based on user inputs.
- Leveraged **PRAW API** for Reddit content and **Discord.py** to send/receive Discord messages.