

# Olin Zhou

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

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## Education

### Texas A&M University

B.S. IN COMPUTER SCIENCE, MINOR IN BUSINESS

- GPA: 3.725

College Station, TX

August 2017 - May 2021

## 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

ENGINEERING DEVELOPMENT GROUP INTERN

May. 2020 - Aug. 2020

- Developed interactive tooling using **Bash** for use by QA engineers that automated and optimized the process of creating **OpenStack** instances for hosting MATLAB **Docker containers**, accelerating MathWorks' platform testing process by **50%**.
- Implemented a web UI using **React** and a backend API using **GlassFish** and **Java** 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 facilitate aggregation of delivery incident statistics, with impact spanning over **100,000** forms submitted per year for use by downstream data analysis and policy teams.
- Utilized **AWS Lambda** and **Aurora DB** for cloud deployment and scaling.
- Led biweekly meetings with clients and stakeholders to discuss project progress and requirements.

### Texas A&M University

College Station, TX

UNDERGRADUATE TEACHING FELLOW (NEWTONIAN MECHANICS)

Jan. 2019 - May. 2019

- Taught 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**, yielding accuracy of 98%, precision of 98%, and recall of 99%.
- Organized meetings, established goals, and produced deliverables to lead a team of three through the process of data cleaning, data analysis, model training/testing, and deployment.

### Stock Price Pager

Jan. 2020

PERSONAL PROJECT

- Architected a web application with **React** and **NodeJS** that alerts users through text messages and/or phone calls based on their desired price for 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 forecasts 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.
- Integrated with **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 upon chat commands.
- Added support for custom voice files/reactions based on user inputs.
- Leveraged **PRAW API** for Reddit content and **Discord.py** to send/receive Discord messages.