

# Zhuo (Danny) Chen

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## EDUCATION

### TEXAS A&M UNIVERSITY

B.S. IN COMPUTER SCIENCE

MINOR IN ECONOMICS

May 2024 | College Station, TX

Engineering Honors

GPA: 4.0/4.0

## LINKS

LinkedIn:// [zhuodannychen](#)

Github:// [zhuodannychen](#)

## COURSEWORK

### UNDERGRADUATE

Data Structures & Algorithms

Analysis of Algorithms

Networks & Distributed Processing

Artificial Intelligence

Databases

Computer Organization

Computer Systems

Linear Algebra

Probability & Statistics

Multivariable Calculus

## SKILLS

### LANGUAGES

Python, C++, Java, JavaScript,  
Haskell, HTML, SQL, Assembly,  
LaTeX

### FRAMEWORKS

Numpy, Pandas, Spark, Tensorflow,  
Scikit-learn, Flask,  
Mongo/Express/React/Node

### TOOLS

Git, AWS, Heroku, GCP, Docker,  
Jupyter Notebook, Excel, Vim

### SOFT SKILLS

Bilingual Communication (English,  
Chinese), problem-solving

## INTERESTS

Artificial Intelligence  
Software Development  
Competitive Programming  
Financial Markets  
Trading

## EXPERIENCE

### CAPITAL ONE | SOFTWARE ENGINEER INTERN

June 2022 - August 2022 | Plano, TX

- Developed **machine learning** algorithms such as decision trees to identify hot leads out of 150K+ leads generated monthly
- Performed feature extraction using information gain and tuned model with cross validation to increase successful sales by 20%
- Designed architecture and created API endpoints; implemented a serverless design using **AWS Lambda**, **Flask**, **RDS**, and **Bonsai** (MaaS)

### TAMU ROBOMASTER | SOFTWARE ENGINEER ON COMPUTER VISION

Feb. 2021 - June 2021 | College Station, TX

- Built a deep learning model (**YoloV4**) with 65% mAP to detect red and blue armor plates on moving robots for a national competition
- Improved the model's range by 5% through data analysis and augmentation on 11,000+ images

### AGGIE CODING CLUB | SOFTWARE DEVELOPER + MANAGER

Sept. 2020 - Dec. 2020 | College Station, TX

- Led a **MERN** stack application to notify students when filled courses are available during class registration, completely removing class search time and maximized probability to get filled courses
- Determined the project scope and delegated tasks to 17 members; worked on frontend, database, and integration

## PROJECTS

### SPEECH EXPRESSION | REACTJS, SPEECH RECOGNITION API

March 2022

- Worked with an **agile** team of 3 in developing a **React** application to help users practice public speaking with real-time feedback
- Created a minimal viable product (MVP) in 2 weeks and was awarded the **best overall** project out of 45 teams

### PORTFOLIO OPTIMIZATION | PYTHON

Dec. 2021

- Implemented the Min Variance, Max Sharpe, and efficient frontier for portfolio optimization on stocks
- Retrieved historical data for back testing using Yahoo Finance API

### DISCORD STOCKBOT | PYTHON, TENSORFLOW

Sept. 2020

- Developed a Discord bot to display data on stocks, news, and market predictions fetched from Yahoo Finance by parsing the HTML code
- Awarded best overall, most creative, and most useful bot for Capsher Coding Challenge 2020

## AWARDS

2022	12 <sup>th</sup> /52	ICPC South Central USA
2021	Top 8%	Facebook Hackerrcup Round 2 Qualifier
2020	8 <sup>th</sup> /80	TAMU Fall Contest, Sponsored by Citadel
2019	2 <sup>nd</sup> /50	Lockheed Martin CodeQuest Contest