ZHUO (DANNY) CHEN

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EDUCATION

Texas A&M University   *2020 - 2023*
B.S. in Computer Science; Dean's Honor Roll   GPA: 4.0/4.0
 • Courses: Discrete Math, Linear Algebra, Multivariable Calculus, Program Design & Concepts, Statistics

EXPERIENCE

DJI RoboMaster   **College Station, TX**
Software Engineer on Computer Vision Team   *Feb. 2021 - Present*
 • Trained a deep learning model (**YoloV4**) with 65% mAP to detect red and blue armor plates on moving robots
 • Created a 1100 image dataset through data labeling and augmentation to analyze different model performances

TAMU Autodrive   **College Station, TX**
Undergraduate Researcher | Lab directed by Jian Tao, Dept CS&E, TAMU   *Jan. 2021 - May. 2021*
 • Successfully navigated a self driving car around a racetrack in **CARLA** simulator using Stanley and PID control algorithms
 • Developed a semantic segmentation UNet model to identify road/lane segments in CARLA images

Aggie Coding Club   **College Station, TX**
Project Manager, Full-Stack Developer | Aggie Registration Alert   *Sept. 2020 - Dec. 2020*
 • Collaborated on a **MERN** stack application to notify students when filled courses are available during class registration
 • Determined the project scope and delegated tasks to 17 members; integrated scraped data with frontend
 • Simplified class search process by **100%** and maximized the probability to get a filled course

Computer Science Club   **Plano, TX**
Senior Executive Officer   *Aug. 2019 - June 2020*
 • Led teams to win at multiple programming competitions including Lockheed Martin CodeQuest
 • Served as a team mentor for 40+ high schoolers, lectured on algorithms and data structures from contests weekly
 • Interviewed 20+ potential candidates through behavioral and algorithmic questions

PROJECTS

StockBot   *Sept. 2020*
 • Developed a Discord bot with **Python** to facilitate the discussion of trading and investing for college students
 • Scraped real-time stock data from Yahoo Finance with BeautifulSoup to be used with bot commands
 • Awarded best overall, most creative, and most useful bot based on project idea for Capsher Coding Challenge 2020

CLearn   *July 2020*
 • Revamped a **MERN** stack web application to help users learn and memorize 5000 Chinese characters for the HSK test
 • Built a **CNN** classifier with **Tensorflow** to predict hand-drawn chinese character digits with 98% accuracy
 • Created efficient UI/UX by reducing mouse clicks by 50%; Proposed an algorithm to estimate the number of Chinese characters a user knows in 3 minutes

Wolf Programming Invitational Contest   *Feb. 2020*
 • Coordinated an annual programming contest with **150+** high school participants to encourage involvement in CS
 • Designed, wrote, formatted, and solved 20 problems with LaTeX, Java, and Python

AWARDS

 • 1st Place Capsher Coding Challenge 2020
 • 1st Place Frozen Eagle Invitational Contest 2020
 • 2nd Place Pariveda Solutions Coding Challenge 2020
 • 2nd Place Lockheed Martin CodeQuest 2020
 • 8th Place TAMU Fall Programming Contest 2020

SKILLS & INTERESTS

Languages: Proficient in Python, C++; Familiar with Java, Javascript, HTML/CSS, LaTeX, Bash
Technologies: Tensorflow, MongoDB, ReactJS, NodeJS, Git, Heroku, Vim
Soft Skills: Bilingual Communication (English, Chinese), Time Management
Interests: Machine Learning, Software Development, Competitive Programming, Trading