ZHUO (DANNY) CHEN

EDUCATION

Texas A&M University 2020 - 2023

B.S. in Computer Science, Economics Minor, Dean's Honor Roll

GPA: 4.0/4.0

 Courses: Data Structures & Algorithms, Computer Organization, Programming Languages, Discrete Math, Linear Algebra, Probability & Statistics, Multivariable Calculus

EXPERIENCE

TAMU RoboMaster College Station, TX

Software Engineer on Computer Vision Team

Feb. 2021 - June. 2021

• Trained a deep learning model (YoloV4) with 65% mAP to detect red and blue armor plates on moving robots

• Improved the model's range by 5% through data analyzation and augmentation on 11,000+ training images

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 UNet machine learning model to segment roads in 1,000 CARLA images

Aggie Coding Club College Station, TX

Project Manager, Full-Stack Developer | Aggie Registration Alert

Sept. 2020 - Dec. 2020

- Led 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; worked on frontend, database management, email sender, and data integration
- Reduced the class search time 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 weekly
- Coordinated an annual programming contest with 150+ high schoolers to encourage involvement in CS
- Interviewed 20+ potential candidates through behavioral and algorithmic questions

PROJECTS

Chinesepedia July 2021

- Revamped a MERN stack web application to help users learn and memorize 5000 Chinese characters
- Optimized the UI to reduce mouse clicks by 50%; Proposed an algorithm to estimate the number of Chinese characters a user knows in 3 minutes; currently with 160+ users
- Implemented Google Login; stored data in JSON files; tested website prior to live deployment on Heroku

Facial Recognition Lock

June 2021

- Built a facial recognition software using OpenCV and Python to provide secured entrances for schools
- · Created CRUD operations with Firebase to quickly add and retrieve face encodings from the database

StockBot Sept. 2020

- · Developed a Discord bot with Python to facilitate the discussion of trading and investing for college students
- Fetched real-time stock data from Yahoo Finance with BeautifulSoup by parsing their HTML code
- Awarded best overall, most creative, and most useful bot for Capsher Coding Challenge 2020

SKILLS & INTERESTS

Languages: Proficient in Python, C++; Familiar with Java, JavaScript, HTML/CSS, SQL, LaTeX, Linux Commands **Technologies**: Tensorflow, Numpy, Pandas, MongoDB, ReactJS, NodeJS, Git, Heroku, Hadoop, Excel, Vim

Soft Skills: Bilingual Communication (English, Chinese), Time Management

Interests: Machine Learning, Software Development, Competitive Programming, Trading

Selected Awards: 2nd Place Pariveda Solutions Challenge 2020, 2nd Place Lockheed Martin CodeQuest 2020, 8th Place (2nd class year) TAMU Programming Contest 2020