David Zhang

(281) 967-2863 (Cell) ▪ davidzhang118@outlook.com ▪ https://www.linkedin.com/in/david-zhang118118/

EDUCATION

The University of Texas at Austin, Austin, TX   Aug 2023 - May 2027
Bachelor of Science: Computer Science and Mathematics w/Robotics Minor   GPA: 4.0/4.0
University Honors – Fall 2023, Spring 2024, Fall 2024
Relevant Coursework:
   CS: *Introduction to Programming, Data Structures, Computer Architecture, Discrete Math*
   Math: *Probability, Linear Algebra, Mathematical Statistics, Numerical Analysis*
Clear Falls High School, League City, Texas   Aug 2019 - May 2023
   Weighted GPA: 5.78/5.0   Rank: 2 / 547 (Salutatorian)

EMPLOYMENT

CS314 Data Structures (Java) Undergraduate Course Assistant (UGCA): 15 hrs./wk.   August 2024 – Present
- Lead student weekly discussion sections on lecture content and section problems
- Hold help hours to aid students with project debugging, algorithm efficiency, and code hygiene
- Assist students with course material and respond to answers on Ed Discussion
- Grade and review weekly programming assignments and exams
- 4.55-4.82/5 (5 = Excellent/Strongly Agree) ratings from students on Course Evaluation

INTERNSHIPS

Database Mart LLC Systems Engineering Intern (Irving, TX): 40 hrs./wk., 4.5wks.   July – August 2024
- Assembled, upgraded, and maintained servers, handling tasks ranging from motherboard to CPU installations
- Installed and maintained servers/server racks in data centers, ensuring consistent uptime
- Participated in DBM Generative AI Challenge (June – August 2024):
    - Explored the applications of Gen AI and created new applications to address real-world problems
    - Developed a business plan for a potential Generative AI startup

Research Intern under Dr. Massoud Motamedi and Jonathan Lin: 16 hrs./wk., 8wks./yr.   July – August 2022
- Learned and worked on Imaris software to track cells and quantify their movements
- Co-First Author of research paper (Fan Xia*, Jonathan L. Lin*, **David L. Zhang***, Shuizhen Shi, Seth E. Buscho, Massoud Motamedi. Quantification of leukocyte trafficking in a mouse model of multiple sclerosis through in vivo imaging. ***Equal contribution)

EXTRACURRICULARS

Texas Aerial Robotics (TAR):   January 2024 – September 2024 (Plan to resume in Spring)
- TAR is an organization that builds fully autonomous drones.
- Member of Software team for Project TAL+ (Takeoff and Landing + Team Selected Mission)
- Work with ROS (Robot Operating System), OpenCV (Computer Vision), and Gazebo (Simulations)

FIRST Robotics (Robonauts 118): 9th-12th 26 hrs./wk., 20wks./yr.
- Designed and prototyped a specific subsystem on the robot each year
- Scouting Captain and Robonauts Committee Member (2023)

SKILLS

- **Programming Languages:** Java (Proficient), C (Intermediate), Assembly (Intermediate), MATLAB (Basic)
- **Web Technologies:** HTML5 (Basic), CSS (Basic), Bootstrap (Basic)
- **Dev Tools & Platforms:** IntelliJ, VS Code, Git, Linux

HONORS

- National Merit Scholarship Program Finalist – 2023
- CCISD 4-Year Superintendent Scholar – 2023
- President's Volunteer Service Award Silver Award – 2020-2021 & 2019-2020