

# David Zhang

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## EDUCATION

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**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

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**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

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**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

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**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)**: 9<sup>th</sup>-12<sup>th</sup> 26 hrs./wk., 20wks./yr.

- Designed and prototyped a specific subsystem on the robot each year
- Scouting Captain and Robonauts Committee Member (2023)

## SKILLS

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- **Programming Languages**: Java (Proficient), C (Intermediate), Assembly (Intermediate)
- **Tools**: IntelliJ, VS Code, Git

## HONORS

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