Alex Zhang

Stanford University
Computer Science, Aero/Astronautics

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TECHNICAL SKILLS

Languages	**C; Java; Python3; LaTeX;**
Technical Tools	**Microsoft Suite; Google Suite; Weebly;**

EDUCATION

Stanford University

B.S. Candidate, Aeronautics and Astronautics, *2021—2025 (expected)*
M.S. Candidate, Computer Science

- Audited and completed **CS107**: **Computer Organization and Systems (in C) during the summer before freshman year.**
- Completed coursework in **MATH51**: Linear Algebra, Multivariable Calculus, **CS 109**: Introduction to Probability for Computer Scientists (in Python)

PROFESSIONAL EXPERIENCE

Memphis Junior Science Association (https://memphisjrscience.org)

Co-director, Founder *September 2019—*

- Oversee curriculum development, finances, and logistics of **3 outreach programs** and events reaching **3400+ individuals through 450+ hours of community service.**
- Organized partnerships with the **YMCA of the Mid South**, **Collierville & Memphis Public Libraries**, **the US Space and Rocket Center**, and numerous children's museums.
- Managing Youtube channel with 8000+ views and 350+ hours of watch time.
- Designed website with over 16,000 lifetime page views.

PIXEL (supervised by IBM, MiBio)

Lead Programmer *January 2016—May 2017*

- In collaboration with a former CTO of IBM and a local medical startup, I worked on creating **an AI-based desktop application using a committee of machines (in Java)** to identify and extract critical information in medical documents.

VOLUNTEER WORK / ACADEMIC CLUBS

- Stanford Student Space Initiative
- Stanford Solar Car Project
- Stanford Blyth Fund
- CHS Science Olympiad — *3-year Captain, Regional Champion Team*
- CHS Science Bowl — *2-year Captain, State Champion Team*

SELECTED PROJECTS

(C) Explicit-free-list Heap Allocator: Implemented `malloc()`, `realloc()`, `free()` heap management functions in C with coalescing of free blocks and first-fit searching to achieve 93% utilization.