Alex Zhang

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Stanford University   GPA: 4.15 / 4.0

B.S. Candidate: Computer Science (track: Artificial Intelligence)   *2021—2025*

Relevant Coursework: CS107: Computer Systems, **CS 109:** Probability in CS, **CME193:** Scientific Python, **CS142:** Web Apps, **CS193X:** Web Programming, **MATH51:** Lin. Alg. & Multivar. Calculus

Technical Skills

Languages: **JS, HTML, CSS, JQuery, Python3; R; C; Git; LaTeX**

Professional Experience

Stanford Openproof Group
Full Stack Web Development Intern   *Apr. 2022 — Present*

- Architected and implemented undo-redo infrastructure (HTML, CSS, JS) with automatic action consolidation and file-specific memory, which serves 4 education courseware applications used by universities in 5+ countries
- Created client and server-side functionality to transition undergraduate courseware online

Google
Data Operations   *Mar. 2022 — June 2022*

- Curated, refined, and completed Python3 translation of 100s of STEM problems used to train and evaluate the *Minerva* deep learning model for education.
- Contributed to *Minerva*'s double-digit accuracy improvements over state-of-the-art models on graduate-level quantitative tasks

Memphis Junior Science Association (memphisjrscience.weebly.com)
Co-director, Founder   *Sept. 2019 — Present*

- Oversee curriculum development, finances, logistics of 3 outreach programs + 11 events with activities in 6 states; reached 4000+ individuals via 450+ hours of community service.
- Supervising Youtube channel (12,000 views and 520 hours of watch time), collaborating with 4 video creators to ensure high quality, educational relevance, and on-time upload.
- Designed and currently maintaining a website with over 20,000 lifetime page views.

PIXEL (supervised by IBM, MiBio)
Lead Programmer   *Jan. 2016 — May 2017*

- Partially implemented and maintained Git version control for an AI-based application using a Java committee machine to extract critical data from medical documents.
- Collaborated with a former CTO of IBM and a local medical startup.

Selected Projects

Explicit-free-list Heap Allocator (C):
- Implemented `malloc(), realloc(), free()` using best-fit search to achieve 93% utilization

Generating Netflix movie rating predictions with machine learning (Python3):
- Implemented a naive bayes and logistic regression classifier in Python without machine learning libraries to analyze viewing patterns and predict Netflix users' movie ratings

Academic Clubs

- Stanford Student Space Initiative, Stanford Association for Computing Machinery