

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. Algebra & Multivar. Calculus

Technical Skills

- JS; HTML; CSS; OOP Design; JQuery; Python3; R; C; Git; LaTeX

Professional Experience

Stanford Openproof Software

Full Stack Web Development Intern

Apr. 2022 — Present

- Architected & implemented **undo-redo infrastructure** (HTML, CSS, JS) with action consolidation and file-specific memory, serving 4 courseware applications used by universities in 5 countries
- Achieved a **6.7% reduction in lines-of-code** after conducting repository-wide consolidation of common Controller components and general streamlining based on **OOP (object-oriented programming)** principles
- Collaborated with a **team of 5 engineers**; wrote and managed **JIRA tickets**, attended **daily standup**, as part of agile development

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