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

Python3; JS; HTML; CSS; OOP Design; Data Structures & Algo; JQuery; R; C; Git; LaTeX; Figma

Professional Experience

Stanford Openproof Software—Full Stack Web Development Intern

Mar. 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
- Designed & implemented goal constraints modal; collaborated on general design tasks
- Collaborated with a team of 5 engineers; managed JIRA tickets, attended daily standup, as part of agile dev

Google—Data Operations

Mar. 2022 — Present

- 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

Stanford Schiff Dorm—Residential Advisor

May 2022 — Present

• Manage dorm for 90+ freshmen; allocate \$64000 budget, plan overnight trips, responsible for public health and safety, create programming to uphold Diversity, Equity, Inclusion initiatives, monitor and maintain facilities

Memphis Junior Science Association—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
- Managing 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 (memphisirscience.weebly.com) with >20,000 lifetime page views

PIXEL—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 MIBIO, 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 Association for Computing Machinery, Stanford Student Space Initiative