

EMILY ZHANG

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AI, FRONT-END, DESIGN, DATABASES

As a mathematician and an artist, I love working on technically challenging problems and beautiful solutions. I'm also passionate about harnessing AI entrepreneurship for social good and anything in the intersection of tech and culture.

EDUCATION

Stanford University | Class of 2026

B.S. in Computer Science (AI Concentration) & B.A in [Art Practice](#)
GPA: 4.114/4.00

- Relevant coursework: Machine Learning (CS 229), Design & Analysis of Algorithms (CS 161), Probability for CS (CS 109), Blockchain Foundations (EE 374), [Modern Mathematics: Discrete Methods](#) (MATH 61DM), Real & Complex Analysis

Cherry Creek High School | 2018 - 2022

GPA Weighted: 4.8 | Unweighted: 4.0 | SAT: 1600 | AMC 12: 118.5

SKILLS

Proficient: Java, React.js, Javascript, TypeScript, HTML/CSS, Python, Figma
Familiar: C++, Node.js, Express, Vue.js, Spark, MongoDB, Mongoose

HONORS

- MIT Math Prize for Girls & AIME Qualifier
- Regeneron ISEF Finalist & Special Award Winner
- USA Computing Olympiad Gold Qualifier
- 4x National Scholastic Art Medalist; Exhibited at the U.S. Capitol, Parsons School, Carnegie Hall

WORK EXPERIENCE

TIFIN | Incoming Software Engineering Intern (Summer 2023)

New York, NY

Medelooop.ai | Database Engineering Intern (Mar. 2023 - current)

Palo Alto, CA

- Optimizing database querying and indexing on large datasets of medical data for rare disease research

Stanford Carta | Front-End Engineer (Dec. 2022 - current)

Stanford, CA

- Leading front-end rebuild and redesign for the newest iteration of [Carta](#), Stanford's student-run course exploration and planning site used by 95% of the student population
- Building and bootstrapping a custom React/TypeScript component library from scratch

AquaRealTime | Software Development Intern (Jul. 2022 - Sep. 2022)

Boulder, CO

- Developed graph annotation feature in Vue.js/TypeScript for algae tracker clients to log and track weather and treatment events against algae levels
- Built predictive analytics for harmful blooms on the backend with principal component and multivariate regression

Machine Learning Researcher (Jul. 2020 - May 2021)

Paper: "Fusing LiDAR and Camera Data for Advanced Context Recognition in Autonomous Navigation Sensory Systems through Multidimensional Deep Neural Network Architectures"

- Created novel Python LiDAR/Camera sensor fusion system using VoxelNet and visual-CNN for more robust object detection and classification of street objects on KITTI autonomous driving dataset

PROJECTS

Marabu PoW Blockchain | EE 374

Built a Proof-of-Work UTXO protocol with a team of 3 in TypeScript with TCP/IP, complete with transaction & block validation, mining, mempools, and gossiping. ([Github repo](#))

Favors App | ASES Bootcamp

Accepted as top 40 of 300+ Stanford applicants; our team ideated and pitched to VCs a mobile app that connects and pays college students through small favors. Won 1st place. ([Mockup](#))

LEADERSHIP

2023 ASES VC3 Organizer

Interviewing Stanford startups, contacting investors, and bringing them together for VC3, ASES'S annual startup "speed-dating" event.

2021 Ross Math Program Jr. Counselor

Invited as a JC after [attending Ross 2020](#). Taught number theory, graded p-sets, lectured on integer partitions, and led problem seminars.