

Emily Zhang

emily49@stanford.edu | 970-999-2198 | [linkedin.com/in/emilyszhang](https://www.linkedin.com/in/emilyszhang) | <https://github.com/49emily>

EDUCATION

Stanford University	Stanford, CA
<i>B.S. in Computer Science (AI Concentration) & B.A. in Art Practice</i> GPA: 4.10/4.00	Class of 2026
<ul style="list-style-type: none">Relevant Coursework: Programming Abstractions (CS106B), Computer Organization & Systems (CS107), Blockchain Foundations (EE374), Modern Mathematics: Discrete Methods (MATH 61DM), Linear Algebra, Real & Complex Analysis, Design Sketching (ME 110)	
Cherry Creek High School	Greenwood Village, CO
GPA Weighted: 4.8 Unweighted: 4.0 SAT: 1600 AMC 12: 118.5	Aug. 2018 – May 2022
<ul style="list-style-type: none">Relevant Coursework: AP Computer Science A (5), AP Calculus BC (5), AP Drawing (5), Data Structures & Algorithms, iOS App Development, Calculus 3/Differential Equations	

RELEVANT EXPERIENCE

Stanford Carta , https://carta-beta.stanford.edu/	Stanford, CA
<i>Front-end Developer</i>	Dec. 2022 – Current
<ul style="list-style-type: none">Leading front-end React.js rebuild and redesign of Carta's newest iterationCarta is Stanford's student-run course exploration and planning site used by 95% of the student population	
AquaRealTime , <i>Algae-Tracking Environmental Technology Startup</i>	Boulder, CO
<i>Software Development Intern</i>	Jul. 2022 – Sep. 2022
<ul style="list-style-type: none">Developed graph annotation feature in Vue.js for algae tracker users to log, view, and track weather and treatment events against phycocyanin and chlorophyll-a valuesBuilt an ML algorithm with principal component regression and multivariate regression that predicts effects of buoy temperature, water temperature, and light on PC/CA levels, allowing more accurate algae detection	
Machine Learning Researcher	Jul. 2020 – May 2021
<i>Project Title: "Fusing LiDAR and Camera Data for Advanced Context Recognition in Autonomous Navigation Sensory Systems through Multidimensional Deep Neural Network Architectures"</i>	
<ul style="list-style-type: none">Created novel Python LiDAR/Camera sensor fusion system that uses VoxelNet and visual-CNN in performing more robust object detection and classification of street objects on KITTI autonomous driving datasetThe architecture reached average precision of 93.62, significantly outperforming previous metricsWrote research paper in LaTeX and presented at Regeneron International Science & Engineering Fair (ISEF)	

LEADERSHIP EXPERIENCE

Stanford ASES , <i>Stanford's Global Entrepreneurship Society</i>	Stanford, CA
<i>Bootcamp Fellow</i>	Sep. 2022 – Current
<ul style="list-style-type: none">Selected as 1 of 40 Fellows out of 200+ Stanford students for ASES BootcampAttending entrepreneurship workshops and speaker series with VCs and founders to develop a minimally viable product and pitch with a team of other members	
Ross Mathematics Program , <i>Proof-based Summer Math Camp</i>	Columbus, OH
<i>Junior Counselor</i>	Jun. 2021 – Aug. 2021
<ul style="list-style-type: none">Attended 2020 Ross Math Program and returned as a Junior Counselor for summer 2021Taught students number theory, graded problem sets, lectured on integer partitions, and led problem seminars	

AWARDS & ACCOLADES

- | | |
|---|--|
| <ul style="list-style-type: none">MIT Math Prize for Girls & AIME QualifierRegeneron ISEF Finalist & Special Award Winner2022 Congressional Art Competition Winner, Winning Piece at U.S. Capitol until July 2023 | <ul style="list-style-type: none">USA Computing Olympiad Gold Qualifier4x National Scholastic Art Medalist; Exhibited at Denver Art Museum, Parsons School, Carnegie Hall (Art Portfolio) |
|---|--|

SKILLS

Software: Jupyter, VSCode, Overleaf, Google Colab, Xcode, Eclipse, Excel, Procreate, Adobe Illustrator, Figma
Coding Languages & Frameworks: Java, Python, C++, JavaScript, HTML/CSS, Vue.js, React.js, LaTeX
Natural Languages: Mandarin Chinese (Bilingual proficiency)

