

# Alexander Kai Chen

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## Objective

Highschool student passionately studying C.S. + A.I. to develop research and engineering skills.

## Publications

### 2025 — iOS as Acceleration

*NeurIPS 2025 ER Workshop*

- Paper (<https://arxiv.org/abs/2512.22180>) accepted as Poster into NeurIPS 2025 Efficient Reasoning Workshop, mentored under Roger Jin (prev. @ Nous Research, Apple, Google Student Researcher)
- Built novel distributed pipeline parallel framework from scratch for utilizing mobile phones as heterogeneous compute accelerators compatible with local consumer hardware

## Skills

- **Programming Languages:** Python, Java, Swift, C++, Lisp (Clojure), Prolog, Lean4
- **Frameworks & Tools:** AWS, Azure, Angular, FastAPI, PyTorch, Mathlib
- **Workflows:** SCRUM, Agile
- **AI/ML:** Neural-Symbolic Systems, Explainable AI, Distributed Computing & Parallelism, Edge & Mobile Computing
- **Theory:** Discrete Mathematics, Formal Verification, Theorem Proving, Data Structures & Algorithms

## Experience

### 2025 — SWE ET Internship

*State Farm*

- Summer 2025: Software Engineer Intern @ State Farm, Enterprise Technology division; AWS, Azure, Angular; SCRUM + Agile workflows

### 2024 — Education Research Internship

*UTD ALPS*

- Summer 2024: Explainable AI educational research intern @ UT Dallas Applied Logic & Programming Systems lab, under Professor Gopal Gupta
- Explored modeling scenarios using Prolog, combining neural networks and symbolic logic systems (NeSy), implemented logic problem solvers

## Honors & Achievements

### 2024-2025 — USACO Gold

*USA Computing Olympiad, Competitive Algorithmic Programming*

- Placed 1,022/12,591 world-wide in first contest in USA Computing Olympiad; advanced to Silver division in first year, Gold division following year

### 2022-2025 — Speech & Debate

*NCFCA Speech & Debate League*

- Placed 2nd team policy speaker nation-wide at online national open tournament.

### 2022-2024 — FRC Robotics World Championships

*FIRST Robotics Competition*

- Served on robotics programming team & led scouting data analytics application development, advancing to world final championship for two years

## Education

### 2023–Present — Highschool

*Homeschool*

- 4.0 GPA, 1600 SAT, 6x APs score 5, currently completing Junior year

### 2025–Present — Dual Credit College Courses

*Collin College*

- Discrete Math (Grade: A, 100%)
- Linear Algebra (in-progress)

### 2023–Present — Online College Courses

*Online*

- "Data Structures & Algorithms Specialization" @ UCSD
- "Build a Modern Computer from First Principles" @ HUJI