




# JACK DAI

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## Education

High School at **Fountain Valley School of Colorado**, CO, US

Aug, 2021 – May, 2025

GPA 3.81/4.00

Taken courses: Abstract Algebra, Honors Differential Equations, AP English Literature and Composition

B.A. candidate in Mathematics and Computer Science at **Colby College**, ME, US

Aug, 2025 – May, 2029

Minor in Music, GPA N/A (First semester)

Selected courses: CS 231 Data Structures and Algorithms, MA 160 Series and Multivariable Calculus, MA 262 Vector Calculus

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## Work Experience

**Fountain Valley School of Colorado**, Media Team

Aug, 2022 – May, 2025

- Collaborated with the media team to broadcast, create and edit videos for school events, including sports games and academic competitions.
- Assisted in managing the school's Instagram accounts, promoting events and engaging with the community.

**China Daily**, Features Reporter Intern

Jun, 2025 – Jul, 2025

- Engaged in interviews with renowned artists, including Russian theater director Yury Butusov, enriching content quality.
- Mastered video editing techniques, producing compelling short videos that enhanced project visibility.
- Contributed to high-profile cultural events, demonstrating adaptability and a commitment to excellence in reporting.

**Dagro Chemical (Chengwu) Co., Ltd.**, Chemical Lab Intern and Inventory Management


Jun, 2022 – Aug, 2022, Jun, 2023 – Aug, 2023

- Assisted in the chemical laboratory, analyzing concentrations of samples and ensuring process quality across multiple stages of production for agricultural product intermediates.
  - Supported inventory management, gaining knowledge of logistics and storage systems to maintain necessary materials for production.
  - Learned the specific functions of factory equipment, sewage treatment processes, and manufacturing procedures in workshops.
  - Observed and studied colleagues' research and development techniques to improve production procedures.
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## Academic Experience

**Physics Handout Translator**

Jul, 2021 – Dec, 2022

- Collaborated with friends to assist Professor Wang Yi at HKUST in translating physics handouts ( [LLLgoyour/Handout](https://github.com/LLLgoyour/Handout)) from English to Chinese covering topics such as relativity, quantum theory, particle-wave duality, and statistical physics. Gained experience using LaTeX and Overleaf to collaborate on the translation and formatting of scientific material.

**Presenter, Unity Day Workshop: Diversity in Photography**

Oct, 2023

- Researched, explored, and presented various themes, styles, and cultural movements in photography history for a Unity Day workshop to students, a school event celebrating diverse cultures, focusing on photographers from various cultural backgrounds.
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## Achievements

**Dean's List**

Aug, 2021 – May, 2025

**AP Scholar Award**

Apr, 2023 – May, 2025

**USA Computing Olympiad Platinum Division Qualifier**

Dec, 2023

**Scholar, Yale Young Global Scholars**

Jul, 2023

- Attended Yale Young Global Scholars in the Literature, Philosophy, & Culture (LPC) session.
  - Engaged in two weeks of academic lectures and participated in various seminars on classical philosophy, minority culture, global architectural styles and music.
  - Collaborated with peers to present a group research project, using spoken-word poetry as a creative exploration of literary techniques and romance in literature.
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## Skills

- Programming Languages: multilingual (not limited to any specific language), especially experienced in Java, Python, LaTeX, comfortable with C, C++, Mathematica, Go, Pascal (in random order).
  - Java/Python: **6 years of experience**, familiar with NumPy for JupyterNotebook, basic to advanced algorithms, number theory and group theory for competitive coding.
  - Web Development: **3 years of experience**, familiar with mainstream frameworks and languages including Vue.JS.
  - Tools: editor-agnostic, have experience with team tools like GitLab, GitHub, BitBucket, Slack, Overleaf and more.
  - Office Tools: **3 years of experience**, familiar with Microsoft Office, Google Docs, and other office tools.
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## Misc

- Languages: English - proficient (SAT 1450/1600: English 680, Math 770, top 3 percentile among all participants), Chinese - native speaker
- Interests:
  - Varsity Alpine Ski Team (2021-2023): Participated in competitive skiing, contributing to the team's achievements in various championships.

- Founder and Keyboard Player, Careless Youth Band (2021-2024): Founded and led the band, organizing rehearsals and performances, and composing original music.