# Jack Dai

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## Education

High School degree at **Fountain Valley School of Colorado**, CO, US                      Aug, 2021 – May, 2025
GPA 3.81/4.00

Taken courses: Introduction to Abstract Algebra, Honors Linear Algebra, Honors Differential Equations, AP English Literature and Composition, AP English Language and Composition, History: Decision 2024

B.A. in Mathematics and Computer Science, and minor in music at **Colby College**, ME, US                      Aug, 2025 – May, 2029

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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.

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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) 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.