

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, MA 160, MA 262

Work Experience

Fountain Valley School of Colorado, Media Team Aug, 2022 – May, 2025

China Daily, Features Reporter Intern Jun, 2025 – Jul, 2025

Dagro Chemical (Chengwu) Co., Ltd., Chemical Lab Intern and Inventory Management Jun, 2022 – Aug, 2022, Jun, 2023 – Aug, 2023

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.

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.
- 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.

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.