Jack Dai

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Education

Colby College, Waterville, ME, USA   *Aug, 2025 – Present*
Expected Graduation: May 2029
B.A. Candidate in Mathematics and Computer Science (with Minor in Music), GPA 3.6/4.0 (First Semester)
Selected Courses: CS 231 Data Structures and Algorithms, MA 262 Vector Calculus
Courses in Progress: CS 252 Mathematical Data Analysis and Visualization, MA 253 Linear Algebra

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Work Experience

Beowulf Sheehan, Waterville, ME, USA   Jan, 2026 – Present
Portrait Photography, Assistant Photographer
- Assisted visiting artist Beowulf Sheehan with a portrait project photographing select students and members of the Colby community.
- Supported portrait sessions with equipment setup/breakdown, lighting preparation, and on-site assistance during shoots.
- Coordinated logistics with sitters and campus offices (availability, scheduling, and communication) to keep sessions running smoothly.
- Worked through Colby student employment; tracked hours and followed workflow expectations discussed with the photographer.

Camden Film Festival, Camden, ME, USA   Sep, 2025
Event Operations, Guest Services, Ticketing
- Assisted with event setup, check-in, ticketing, and guest guidance at the Camden Opera House.
- Supported screenings and live events by coordinating with staff and attendees to ensure smooth operations.
- Gained hands-on experience in arts event management and community engagement.

China Daily, Beijing, China   Jun, 2025 – Jul, 2025
Cultural Journalism, Features Reporter, Videographer
- Conducted and supported interviews with artists and cultural figures (including Russian theater director Yury Butusov) to develop feature stories.
- Reported and produced feature coverage on Beijing East Shore Jazz Club, including interviews, transcript organization, and story development.
- Edited short-form videos for cultural coverage, improving clarity, pacing, and audience engagement.
- Contributed to coverage of major cultural events, demonstrating adaptability and attention to editorial quality.

Related Projects

Data Structures & Algorithms Projects   *Sep, 2025 – Dec, 2025*
- Completed a series of programming projects in Java for a Data Structures and Algorithms course, implementing core data structures such as linked lists, stacks, queues, binary search trees, and hash maps.
- Developed search algorithms including BFS, DFS, and A* for maze-solving and pathfinding problems.
- Built and tested algorithmic game strategies and simulations, focusing on efficiency, correctness, and performance analysis.
- Organized coursework, labs, and project code in a structured GitHub repository (🌐 LLLgoyour/cs231) with documentation and version control.

LUI, UI Framework Based on Microsoft Fluent UI   *Aug, 2021 – Present*
- Designed and developed an open-source UI component library using Vue and TypeScript, inspired by Microsoft Fluent UI design principles.
- Implemented modular, reusable components with consistent theming, layout systems, and accessibility considerations.
- Structured the project with clear documentation, component demos, and version control to support maintainability and developer usability.
- Published and maintained the framework on GitHub (🌐 LLLgoyour/LUI) for public use and collaboration.

Academic Experience

Research Assistant, *Advisor: Prof. Hong Zhang*, Colby College   *Nov, 2025 – Present*
- Conducting historical research on the role of the YMCA in the development of modern sports and physical education in China.
- Collecting and analyzing archival documents, biographical records, and institutional histories related to Chinese sports modernization.
- Preparing a research paper under faculty supervision.

Achievements

USA Computing Olympiad Platinum Division Qualifier   *Dec, 2023*

Skills

- Programming Languages: multilingual (not limited to any specific language), especially experienced in Java, LaTeX, comfortable with Python, C++, Mathematica, Go, HTML, JavaScript (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 languages including Vue.JS.
- Tools: editor-agnostic, have experience with team tools like GitLab, GitHub, BitBucket, Slack, Overleaf and more.

- Office Tools: **6 years of experience**, familiar with Microsoft Office, Google Docs, and other office tools.

Misc

- Languages: bilingual in English, native in Mandarin Chinese
- Interests:
  - Photography (2020–): Curated and exhibited multiple photo portfolios.
  - Piano Performance (2017–): Performed in recitals and at various venues, featuring works by Liszt, Beethoven, Bach, Scriabin, and others.
  - 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 (2021-2025): Founded and led the band, organizing rehearsals and performances, and composing original music.

Publications & Works in Progress

[1] J. Dai, "The YMCA and the Development of Modern Sports in China," 2026.