

Aubrey Cantrell

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EDUCATION

Wellesley College | Wellesley, MA

Expected Graduation: May 2026

Candidate for Bachelor's of Arts in Computer Science and Studio Arts | 3.81 GPA

Relevant Coursework: Human Computer Interactions, Web Development, Digital Imaging, Fundamental Algorithms, Data Structures

Massachusetts Institute of Technology | Cambridge, MA

Cross-Registered | Computer Science and Design Engineering | 5.00 GPA

SKILLS AND INTERESTS

Technical Java, Python, C++, git, Figma, Javascript, HTML, CSS, Photoshop, Illustrator, Blender, Wordpress

Language Chinese (Bilingual) | **Hobbies & Interests** Fiber Arts, Printmaking, Glass Welding, Surfing, Cycling, Hiking, Climbing

WORK AND RESEARCH EXPERIENCE

MIT Media Lab | *Undergrad Researcher* | Cambridge, MA

March 2025 – Present

- Working on GenAI For Personalized Animations Project, designing and developing user interface to connect speech to AI generated image using Processing

Wellesley College | *Teaching Assistant and Course Development* | Wellesley, MA

December 2024 – Present

- Leading office hours, grading and additional support for CS 231 (Fundamental Algorithms) and MATH 225 (Combinatorics and Graph Theory)
- Designing course material for CS 235 (Theory of Computation)

MIT META Lab | *Undergrad Researcher* | Cambridge, MA

January 2024 – Present

- Blending experimental and computational nanophotonics, plasmonics, electronics, thermodynamics and mechanics
- Illustrating and rendering physical models of material engineering products using Blender and Illustrator for publication

CodeAdvantage | *Technical Associate & Instructor* | Cambridge, MA

January 2024 – Present

- Implementing education software and overseeing distribution of material throughout local schools
- Teaching Python, JavaScript, robotics, and block coding to K-8 students to develop proficiency and applications

International Swim Coaches Association | *Web Development Intern* | Roanoke, VA

January – September 2024

- Rebuilt frontend and backend of company website

MIT Sea Grant Program | *Undergrad Researcher* | Cambridge, MA

February – June 2023

- Demonstrated the change in growth of assorted algae types within the Atlantic Ocean surrounding Massachusetts through image processing, using MATLAB, Photoshop and Javascript to edit and transform satellite images

LEADERSHIP & COMMUNITY ENGAGEMENT

Gordon-MIT Engineering Leadership Program, *Gordon Engineering Leader*

May 2024 - Present

- Participating in selective leader development program focused on being an effective member or leader of industry engineering teams
- Actively practicing leadership, teamwork, and communication skills in an engineering context; complementing MIT's technical coursework

Wellesley College Athlete Mentor Program, *Mentor*

2023 - 2024

- Provide guidance and assistance to assigned group of new student-athletes
- Assist and lead them as they learn to balance their athletic and academic commitments

Wellesley College Varsity Swimming, *Athlete*

2022 – 2025

- Attained all time Wellesley College Swimming program record in the 200 yard Individual Medley & 200 yard Medley Relay
- 2x NCAA All America Award: 2023, 2024
- Served as Chair of the Faculty Hiring committee, manages and maintains social media content for team

PROJECTS

Wellesley Work Order | *Working Site Redesign* | [Website](#)

Winter 2025

- Developed and redesigned full stack site for Wellesley's outdated work order service processes to prioritize and improve usability, branding, and transparency

BakeBot | *AI Voice Recognition Software* | [Application](#)

Fall 2024

- Developed an Interactive Voice Skill integrated with AI making the baking process easier and more efficient

Spam! | *App Design* | [Concept](#)

Summer 2024

- Used prototyping and interaction design to create and develop an app that drives student interest in civic engagement on campus through increasing accessibility and transparency of student government and organization eboards