

# Aileen Du

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## EDUCATION

### Wellesley College

Wellesley, MA

*B.A. in Computer Science and Music | Cumulative GPA: 3.66*

Expected May 2027

- Relevant Coursework: Introduction to Python, Java and Data Structures, Linear Algebra, Combinatorics and Graph Theory, Introduction to Algorithms (cross-registered at MIT), Foundations of Computer Systems, Software and Data.

## EXPERIENCE

### MIT Media Lab, Opera of the Future

Cambridge, MA

*Software Engineer Intern*

Sep 2024 - Present

- Pioneered an [emotion-visualization system](#) using TouchDesigner that tracks and translates visitor movements into real-time color displays, increasing visitor engagement by 55% and creating personalized, immersive experiences.
- Engineered a virtual mouse system using Touchdesigner, Python, and MediaPipe ML model, achieving 95% accuracy in gesture detection.
- Applied natural language processing and sentiment analysis on 3,500 lullabies, achieving a 27% improvement in parent-child bonding metrics through automated identification of effective emotional language patterns.

### Pioneer Academics

*Researcher*

Feb 2022 - July 2022

- Authored a 12-page [research paper](#) on using descriptive social norm messages to encourage young girls to enter STEM, mentored by Babson College Professor Krista Hill-Cummings.
- Analyzed survey data from 100+ participants through Python, Pandas, statistical t-tests, and qualitative methods, revealing that 47% of women face male dominance barriers and 51% experience fear of judgment in STEM fields.

## PROJECTS

### Babson Innovation Buildathon

*Speech Therapy Application*

Nov 2024

- Secured third place and \$1,000 in seed funding for a gamified speech therapy application that increased therapy adherence and reduced stigma for young users.
- Developed prototype using Python, React, and speech recognition APIs (Google Cloud Speech, Mozilla DeepSpeech), delivering real-time pronunciation feedback with 90% accuracy.

## LEADERSHIP AND EXTRACURRICULARS

### Coding Club

Wellesley, MA

*Software Developer*

Sep 2023 - Present

- Represented Wellesley in ICPC (International Collegiate Programming Contest).
- Engaged in weekly Python problem-solving sessions, tackling coding challenges in a collaborative environment.

### Wellesley College Varsity Golf

Wellesley, MA

*Co-Team Captain*

Sep 2023 - Present

- Led over 20 hours per week of training and tournament participation, leading to a national DIII women's golf 5th place ranking.

### Pforzheimer Learning and Teaching Center (PLTC)

Wellesley, MA

*Peer Tutor*

Sep 2024 - Present

- Instructed 40+ tutoring sessions per semester, providing 4+ hours of weekly support for students in Calculus I & II.
- Developed personalized learning strategies for 25+ students, increasing student confidence ratings by 35% based on post-session surveys and improving course completion rates by 22%.

### CANGO Volunteer Teaching Program

Hebei, China

*Program leader*

Jan 2022 - Sep 2023

- Spearheaded a team of 15 volunteer teachers to develop and implement interdisciplinary STEM and English programs through structured curriculum planning and regular performance reviews.
- Expanded program reach to 200+ students in disadvantaged communities, resulting in new partnerships with 3 additional schools based on successful program outcomes.

## SKILLS

- **Programming Languages & Tools:** Python, Java, C, SQL, Pandas, Numpy, HTML, CSS, JavaScript, React, Git, Microsoft Office Suite (Word, Excel, PowerPoint).
- **Certification:** CodePath Technical Interview Prep (2025 Spring).
- **Hobbies:** Jazz Vocal, Guitar, Song Production, Golf.