

Ivy Yip

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EDUCATION

Massachusetts Institute of Technology

Candidate for BS in Computer Science and BS in Math

May 2027

GPA: 5.0/5.0

Relevant Coursework: Intro to ML (6.3900), Intro to Algorithms (6.1210), Fundamentals of Programming (6.1010), Probability and Random Variables (18.600), Discrete Math (6.1200), Web Lab (6.9620)

Westlake High School

Class Rank: 6 out of 693 students; GPA: 106.024/100

May 2024

Austin, TX

EXPERIENCE

Fluid Interfaces @ MIT Media Lab

Undergraduate Researcher

Feb. 2025 – Present

Cambridge, MA

- Developed experiment software in **React.js** to collect data to examine people's perception on voice
- Designed and applied machine learning models for dataset processing

MIT Election Lab

Undergraduate Researcher

Jan. 2025 – Present

Cambridge, MA

- Developed **web scrapers** using **Python** to extract and process legislative bill information
- Fine-tuned **LLMs** to classify election laws

Yale Summer Program in Astrophysics

Summer Program Participant (1 of 36 from 800+ applicants)

July 2023 – Aug. 2023

New Haven, CT

- Observed an extragalactic supernova at Yale's Leitner Observatory
- Analyzed and modeled the photometric light curves of the supernova using software and **Python** packages
- Authored research paper in collaboration with team members

Texas State University

Student Researcher

Aug. 2023 – Aug. 2024

San Marcos, TX

- Self-initiated independent research project to model social media's networking effect by analyzing news' propagation under Professor Chul-Ho Lee
- Parse data for analysis and apply algorithms to discover users with greatest impact

PROJECTS AND EXTRACURRICULARS

Picventure

Web Lab: A Web Programming Class and Competition 6.9620 [code]

Jan. 2025 – Feb. 2025

Cambridge, MA

- Developed a picture-sharing website using **AWS cloud storage** and the **MERN** stack, enabling users to complete daily challenges, form friend groups, and unlock achievements
- Implemented **cron jobs** to automate real-time backend updates

MIT Motorsports

Software Telemetry Team Member

Sept. 2024 – Feb. 2025

Cambridge, MA

- Developed telemetry website using **Next.js** and **Typescript**, enabling real-time data visualization
- Integrated 3D models into web pages and implemented authentication **APIs** to secure user access

FIRST Robotics Competition (FRC), Team 2468 Team Lead / Member

World Championship Division Finalist / 1 of 6 Chairman's Finalists at World Championship

Feb. 2022 – May 2024

Austin, TX

- Headed the Intelligence & Strategy team (15+ members)
- Designed and managed the development of app for data collection, mining and analysis to make the smartest strategic decision for the team

SKILLS & INTERESTS

Programming Language/Framework: Python, Java, Javascript/Typescript, React.js, HTML/CSS, SQL, MongoDB, AWS, Git/Github

Languages: English (fluent), Chinese (Mandarin & Cantonese) (fluent)