

JIEWEN HUANG

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EDUCATION

Columbia University in the City of New York
B.A., Computer Science & Mathematics (Dual Degree)
QuestBridge National College Match Recipient

Anticipated June 2030

Stuyvesant High School | New York, NY

Anticipated June 2026

High School Diploma

GPA: 95.94 / 100.00 (UW)

PSAT/NMSQT: 1500/1520 (Oct 2024; 740 EBRW/760 M)

SAT: 1580 / 1600 (Nov 2024 / Jun 2025; 790 EBRW/790 M)

Relevant Coursework: AP Computer Science A, Computer Graphics, Cybersecurity, AP Calculus AB, Honors Physics, Organic Chemistry, AP English Language

HONORS & AWARDS

- 3rd Place Overall, Citadel / Citadel Securities High School Terminal (2026)
- National Merit Finalist
- Best Academic Award in Economics, MITES Summer 2025 (MIT)
- Irwin Zahn Spirit of Innovation Prize (\$1,000) | Daniel Bergstein 1980 Memorial Scholarship (\$2,500)
- 9x Science Olympiad invitational medals, incl. 3rd in Disease Detectives (Brown 2026), 3rd in Water Quality (Yale 2026), 4th in Water Quality (Columbia 2026), 2x 4th Microbe Mission (Yale 2025)
- 4th Place, Jane Street NYC Mystery Planet (2026)

EXPERIENCE

24/7 Teach | *Software Development Intern -> Software Engineer (Part-Time)* | New York, NY **Feb 2025 - Present**

- Completed 6 months of paid, hands-on software experience as intern under Mr. Justice Jones at EdTech startup 24/7 TEACH, funded by NYCDOE stipend as part of the CS4ALL Pathfinders program (\$16.50/hr) & hired part-time post-internship for outstanding performance
- Designed from scratch and shipping NaomiAI ELA, a K-8 reading intervention platform, leading to production deployment of 190 students at Legacy College Prep (South Bronx charter) w/ paid annual contract and 2-year research partnership
- Designed a secure Supabase PostgreSQL backend, implementing row-level security across 13+ student-data tables and developing 160+ singleton services w/ React/TypeScript/Tailwind frontend

Fed10 (Y Combinator W26) | *Software Engineering Intern* | San Francisco, CA **Jan - Jun 2026**

- Built asynchronous Python web scrapers aggregating municipal regulations and laws from government databases into a single centralized store.
- Re-architected a 100k+ line Flask backend to be agent-native: built a CLAUDE.md resolver table routing AI coding agents to 22 area-specific docs (database, daily scan, agent search, Temporal, auth), so agents load the correct context before touching code instead of pattern-matching from filenames.

O2NYC | *Software Engineer & Volunteer* | New York, NY **Dec 2024 - Present**

- Built and shipped pages for o2nyc.org, the nonprofit's public website, in React and CSS, supporting its mission to deploy affordable air quality sensors in NYC neighborhoods underserved by existing PM2.5 monitoring infrastructure.
- Contributed to \$8,000+ raised across 15+ volunteer hours and assisted in assembling air quality sensor hardware.

LEADERSHIP & PROJECTS

StuyCast | *VP of Web Development* | New York, NY **Sep 2025 - Jun 2026**

- Lead the web development crew, architecting and shipping the club official site (stuycast.org) in Next.js, React, TypeScript, and Tailwind CSS to showcase video productions to a school community of 3,000+ students.
- Engineered core features including the team roster, a YouTube-integrated video gallery, Instagram feed embeds, and Three.js and Framer Motion visual effects.

Stuyvesant Junior & Senior Caucus | *Web Developer / IT Lead* | New York, NY **Jul 2024 - Jun 2026**

- Spearheaded front-end development of the Junior and Senior Caucus websites, writing 3,000+ lines of React across two years and maintaining the sites in real time throughout the school year.
- Helped raise \$2,000 toward the annual Junior Prom through on-site advertising.

Stuyvesant Science Olympiad | *Varsity Competitor & Web Dev Lead* | New York, NY **Sep 2023 - Jun 2026**

- Compete in the Biology study division; placed 2nd in Epidemiology and 6th in Microbiology out of 300+ students schoolwide.
- Compete at collegiate invitationals against 60-90+ team fields, medaling consistently at Yale, Columbia, and Brown.

SUMMER PROGRAMS

MITES Summer, MIT | *Scholar* | Cambridge, MA **May - Aug 2025**

- Admitted to a cohort of 65 from 6,000+ national applicants (approx. 1% admit rate), fully funded by MIT.
- Led a team of 4 to design and run a paid public survey on perceptions of AI-generated work, using Qualtrics for instrument design and Prolific for distribution to 200+ respondents.
- Analyzed results in R and Python and presented findings at the MITES 2025 Symposium.
- Completed coursework in E&M Physics, Calculus I, Biochemistry, Humanities, and Economics.

NYU Cybersecurity for Computer Science (CS4CS) | *Scholar* | New York, NY **Jul - Aug 2024**

- Selected for a four-week program covering cybersecurity fundamentals and their implementation in Python.
- Authored a research paper assessing the feasibility and future applications of artificial intelligence in cybersecurity.

TEACHING & COMMUNITY SERVICE

Stuyvesant CsDojo | *Volunteer Tutor* | New York, NY **Sep 2025 - Jun 2026**

- Tutor students weekly after school in CS coursework including AP CSA and Computer Graphics (20+ hrs TD).
- Compile weekly reports on the most common points of student confusion for CS faculty to apply in curriculum revision.

MyPy Coding | *Mentor* | New York, NY **Sep 2024 - Jul 2025**

- Taught coding fundamentals in Python and Scratch as a volunteer tutor, hosting 25+ weekly sessions of 30 to 40 minutes over Zoom.

The Singing Winds | *Volunteer* | Brooklyn, NY **Aug 2024 - Aug 2025**

- Run weekly setup of tables, games, and activities at Albemarle Playground and assisted in distributing free backpacks and school supplies to 500+ children.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, R, HTML, CSS

Frameworks & Libraries: React, Next.js, Flask, Tailwind CSS, Three.js, Framer Motion

Platforms & Tools: Supabase, PostgreSQL, Git, RStudio, Qualtrics, Prolific, DaVinci Resolve

Spoken Languages: English (fluent), Mandarin (fluent)