

# Connor Vincent-Eidelman

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## EDUCATION

**Brandeis University**, Waltham, MA 02453

2023-Present

B.S. Computer Science, Chemistry Minor. GPA: 3.42

*Relevant Coursework:* Advanced Programming Techniques in Java, Data Structures and the Fundamental of Computing, Fundamentals of Software Engineering, Techniques of Calculus.

*Currently Completing:* Discrete Structures, Fundamentals of Computer Systems.

## SKILLS

- **Programming Languages** – Python, Java, JavaScript, HTML, CSS, SQL
- **Frameworks and Tools** – Java Swing (UI development), JavaFX, Google Sheets API, REST APIs, Git/GitHub, OpenCV (image processing), OpenAL (audio processing) Matplotlib, NumPy.
- **Software Development** – Object-Oriented Programming (OOP), Data Structures & Algorithms, Software Engineering Principles, Agile Development,
- **Other Technical Skills** – Cloud-based application development, AI player logic implementation, real-time audio/visual systems, database integration, web development and design.
- **Soft Skills** – Team collaboration, problem-solving, communication, project management.

## RELEVANT PROJECTS

### Dominion Card Game (Jan-May 2025) –

- Developed an interactive Java card game based on the online *Dominion* game.
- Implemented AI players with advanced logic, integrated APIs and utilized cloud-based services.
- Collaborated in a team of engineers to build and refine gameplay features.

### Java Synthesizer (Dec 2024-Jan 2025) –

- Created a sound synthesis interface in Java with user controls for waveform, volume, and pitch using OpenGL.
- Used mathematical algorithms to create unique waves that can be translated into audible sound.
- Integrated a real-time waveform visualizer for enhanced interactivity.

### Magic The Gathering Card Search (Feb-April 2025) –

- Built an SQL database of over 40,000 card artworks with RGB color histogram data.
- Designed a Java-based UI to help user search and display cards based on RGB similarity.
- Enabled data export for use in common card storing tools.

### Portfolio Website (April 2025 - Current) –

- Built a fully animated, multi-page HTML/CSS/JavaScript website featuring project showcases, a blog, contact links, and a personal bio.
- Emphasized clean transitions and interactive design.
- Created a functional contact form in JavaScript that sends email messages to the website owner.

### Spine Visualization (June 2025 - Current) –

- Designed a Python application to visualize a user's spine from photogrammetry scans.
- Created a scalable algorithm to approximate spinal points from a 3D mesh of the human body.
- Aims to assess spinal curvature health metrics.

### DeisHacks 2025 Hackathon (Jan 2025) –

- Collaborated in a 48-hour hackathon with a team of four to consolidate the Waltham Boys & Girls Club member data into a centralized platform.
- Programmed a pipeline that merged data from multiple CSV files hosted on various websites into a unified

- Google Sheet Database using the Google Sheets API.
- Developed a photo-scanning tool to digitize physical documents, automating sorting by parsing names, dates, and other key identifiers

## OTHER EXPERIENCE

**CITYatwork** (Brooklyn, NY) – *Intern/Education Design Associate* June 2024 – August 2025

- Helped to renovate public elementary school classrooms in Brooklyn by constructing furniture and organizing interactive learning spaces.
- Designed and led interactive science and art projects to promote creative learning and exploration.
- Supported both physical and educational infrastructure improvements to enhance student learning environments.

**PS.11** (New York, NY) – *After School Counselor* November 2021 – December 2022

- Provided academic support to students in Pre-K through 3rd grade, helping develop foundational study habits and organizational skills.
- Led science and art projects and acted as liaison between students and program staff.
- Served as a liaison between students, parents, and staff, supporting a safe, communicative, and enriching after-school environment.

**New York Police Department** (New York, NY) – *Intern in Legal Bureau* June 2022 – August 2022

- Assisted the NYPD Legal Bureau with office support, scheduling and the management of their extensive legal database.
- Managed detailed data entry and gained exposure to legal and administrative procedures.
- Supported and shadowed an NYPD lieutenant and learned about the legal structure of the police force.

**The Cat Café Rescue** (Red Hook, NY) – *Barista/Cat Handler* June 2019 – August 2019

- Supported daily operations at a café partnered with a feral cat rescue nonprofit, combining customer service with animal welfare.
- Processed transactions, fulfilled orders, and maintained accurate visitor tracking for a ticketed guest system.
- Oversaw animal care routines and monitored guest interactions to ensure a safe and enriching environment for both cats and patrons.

## SERVICE & ACTIVITIES

**Model UN (Club)** (Brooklyn, NY) - *Delegate* 2021-23

- Participated in national and local Model UN conferences, developing diplomacy and public speaking skills.
- Committed several hours to research and writing of papers on humanitarian issues across the globe.
- Regularly attended meetings to work with fellow students to help improve each other's communication and presentation abilities.

**Serein Fashion Magazine (Club)** (Brooklyn, NY) – *Writer/Editor* 2021-23

- Wrote and edited many articles and video essays on fashion history and current trends.
- Received the Dedicated Artist Award, recognizing commitment and contributions to artistic initiatives.

**Tarian Videography (Club)** (Brooklyn, NY) – *President* 2021-23

- Lead a student-run club focused on documentary film production, video editing, and digital storytelling.
- Organized meetings, workshops and collaborative projects to teach editing techniques, and creative direction.
- Fostered a creative and inclusive environment, mentoring members and promoting student media on social platforms.

**Trevor Zoo** (Millbrook, NY) – *Animal Care Volunteer* 2020 - 2021

- Assisted in the daily care and feeding of various animal species, following specialized dietary and enrichment protocols.
- Cultivated knowledge in animal behavior, biology, and responsible caretaking through hands-on experience.
- Delivered guided tours to zoo visitors, fostering public engagement with wildlife education and conservation.