

Hillel Gersten

Queens, NY | Hillelgersten@gmail.com | 347-453-6467 | [GitHub](#) | [LinkedIn](#)

EDUCATION

Queens College, City University of New York (CUNY), Queens, NY

BA in Computer Science | Major GPA: 3.97/4.00

Expected December 2025

RELEVANT COURSEWORK

Data Structures and Algorithms, Databases, Computer Architecture, Calculus, Discrete Structures, Probability and Statistics, Internet and Web Technologies, Linear Algebra, Theory of Computation.

SKILLS

Programming: Java, C++, Python, JavaScript, Assembly, HTML, CSS, SQL.

Technologies: React, node.js, REST API, NumPy, Pandas, Scikit-Learn.

PROJECTS

Genre Classification | [GitHub](#)

- Worked in a team of three to develop a machine-learning model to classify songs by genre.
- Analyzed a dataset of 10,000 songs for key audio features (tempo, loudness, timbre) using Pandas, NumPy, and Librosa.
- Trained a Random Forest classifier in Scikit-Learn, achieving an accuracy of 88%.

Weather Application | [GitHub](#)

- Developed and deployed a responsive weather forecasting application using React, allowing users to view real-time weather data and a 5-day forecast.
- Integrated OpenWeatherMap's API to fetch and display weather data, including dynamically changing images based on weather conditions.
- Managed version control and continuous deployment via GitHub and Netlify, ensuring consistent updates and reliable performance.
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Cyber BeatBox Application | [GitHub](#)

- Generated a Java-based BeatBox application that allows users to make unique beat sequences.
- Imported the Swing library as the graphical user interface for user interaction.
- Implemented MIDI functionality to generate and play musical sequences based on user input.

Online Portfolio | [GitHub](#) | [Website](#)

- Designed a personal portfolio website using HTML, CSS, and JavaScript.
- Optimized viewing on various devices by implementing a responsive design.

RELEVANT EXPERIENCE

CUNY Tech Prep, New York, NY

Data Science, Fellow

July 2024 – Present

- Learn data science skills through weekly meetings, gaining applicational experience with Python, Tableau, and other languages.
- Collaborate with other fellows on project-based learning and strategically apply data science skills.
- Engage with industry professionals to navigate the technology field and enhance career development.