

Cecilia Esteban

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EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Bachelor of Science in Computer Science, Visual Arts and Technology Minor

Expected: May 2026

GPA: 3.821/4.0

Honors: Pinnacle Scholar, Dean's List (Fall 2022-2024, Spring 2023-2024), Edwin A. Stevens Scholarship

Relevant Coursework: Intro to Computer Science (CS 115), Data Structures (CS 284), Discrete Structures (CS 135), Algorithms (CS 385), Computer Architecture (CS 382), Vectors and Matrices (MA 125), Multivariable Calculus (MA 126), Probability and Statistics (MA 222), Intermediate Statistics (MA 331), Programming Languages (CS 496), Systems Programming (CS 392), Software Development Process (CS 347), Linear Algebra (MA 232), Theory of Computation (CS 334), Security, Privacy, and Society (CS 396), Database Management Systems (CS 442) [Expected Completion by May 2025: Object-Oriented Analysis & Design (CS 574), Human-Computer Interaction (CS 545), DevOps Principles and Practices (SSW 590)]

José Martí STEM Academy

Union City, NJ

High School Diploma

June 2022

GPA: 4.890/4.0 (Rank: 1/160, Valedictorian)

Relevant Coursework: Intro to Computer Science, AP Computer Science A, AP Statistics, AP Calculus AB

TECHNICAL SKILLS

Programming: Java, Python (Selenium, Pandas), C, C++, Object Oriented Programming (OOP), HTML, CSS, JavaScript, Scheme/Racket, GitHub, OCaml

Operating Systems: Microsoft Windows, MacOS, Ubuntu Linux, UNIX

Spoken/Written Languages: English (Fluent, native), Spanish (Fluent, native)

Software: Eclipse IDE, IntelliJ, Visual Studio Code, RStudio, Adobe Photoshop, Adobe Premiere, Adobe After Effects, Blender, Audacity, FL Studio

General: Microsoft PowerPoint, Microsoft Excel, Microsoft Word, Google Slides, Google Sheets, Google Docs

EXPERIENCE

Undergraduate Research Assistant - Negative Ties in EVE Online

May 2024 - Aug. 2024

- Assisted with scraping data surrounding solar system ownership in EVE Online to identify attackers & defenders in killmails.
- Wrote a Python program to identify and create a CSV file with a list of player-owned solar systems between the years 2017 and 2022 in EVE Online.
- Wrote a Python program to filter and create JSON files with all killmails from 2017-2022 that occurred in player-owned systems.

Skills: Python, Pandas, Selenium, JSON, Data Scraping, Data Filtering, Communication, Time Management, Project Planning

Course Assistant - Data Structures (CS 284)

Jan. 2024 - May 2024

- Hosting and assisting students with Java during lab sessions
- Hosting office hours in 2-hour sessions/intervals for additional aid with assignments, labs, and topics discussed in class
- Grading student assignments and labs

Skills: Communication, Educational Leadership, Object-Oriented Programming (OOP), Java, Problem Solving

Tutor - Intro to Programming (CS 115) & Data Structures (CS 284)

Nov. 2023 - May 2025

- Assisting students with programming in Python and Java at the Academic Support Center (ASC)
- Elaborating on concepts covered within the defined courses (CS 115 and CS 284)
- Aiding with assignments (conceptual and practical) related to the courses' concepts

Skills: Communication, Educational Leadership, Tutoring, Object-Oriented Programming (OOP), Python, Java, Problem Solving

Undergraduate Research Assistant - "A Universe Within Itself"

May 2023 - Aug. 2023

- Researched the way generative AI **functions** (specifically in regard to voice modeling and generation, as well as still image and video generation), its implications, and the current state of this technology.
- Assisted Professor Christopher Manzione in the creation of a thought-provoking video and project which serves as a time capsule, displaying the aforementioned state of generative AI.

Skills: Data Collection, Project Planning, Time Management, Communication, Machine Learning, Artificial Intelligence (AI), Generative AI

Project/Website: <https://auniversewithinitself.com/>

EXTRACURRICULARS

Stevens A Cappella | *Floctaves General Manager (Sept. 2023 - May 2024) & Member*

Sept. 2022 - Present

Responsibilities: Determining member availability, scheduling rehearsals, determining repertoire, finding arrangements, ensuring individual sections meet for sectionals, determining event interest, informing members about upcoming events/performances.

Skills: Management, Leadership, Communication, Collaboration, Musicality

Stevens Game Development Club | *Member*

Sept. 2022 - Present

What it entails: Attending Learn Jams to gain knowledge about different engines, video game planning and design, and valuable assets such as Github in order to apply them to personal projects.