

# Toshi Troyer

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## EDUCATION

New York University - College of Arts & Science

Graduating May 2025

- **Major:** Computer Science
- **Minor:** Spanish

## RELEVANT COLLEGE COURSEWORK

Computer Systems Organization, Algorithms, Discrete Mathematics, Advanced Psychological Statistics, Linear Algebra, Operating Systems, Natural Language Processing, Advanced Software Engineering, Computer Graphics, Applied Internet Technology

## PROGRAMMING LANGUAGES & TOOLS

Java, JavaScript, Python, C, C++, Assembly, R, SQL, HTML, CSS, Node.js, React, Next.js

## EXPERIENCE

### Meade CPA-Software Engineering Intern:

July 2024 - Present

- Developed a cloud-based system integrating Oculus's AI-powered APIs to automate tax and bank document processing, reducing manual entry and improving turnaround time while emphasizing secure development practices.
- Engineered and deployed a React-based web application on Azure, applying API-first principles and modern web technologies to enhance data handling and user interaction.
- Collaborated with cross-functional teams at Meade CPA and Oculus to align project timelines and communication, demonstrating an execution-driven mindset.

### Varsity Tutors:

May 2024 - Present

- Designed and delivered individualized computer science tutoring sessions by developing tailored lesson plans to address learning gaps and enhance problem-solving skills.
- Coordinated tutoring schedules across multiple students, showcasing strong time management and a collaborative approach to educational support

### Freelance Tutor:

2020-2022

- Advertised services through a neighborhood forum to build a steady client base and managed multiple student schedules independently
- Developed customized learning plans for middle school students, including a long-term partnership with a student struggling in Pre-Algebra and Geometry, helping her improve from a C to an A by incorporating weekly problem-solving sessions and cumulative review exercises over two years
- Maintained regular communication with parents to provide progress updates and adjust study plans

## PROJECTS

### Creative Showcase App:

March - May 2025

- Built a full-stack portfolio web app using JavaScript, Next.js, Tailwind CSS, and MongoDB, enabling creative students to design and share personalized portfolio sites with dynamic routing.
- Designed a robust MongoDB schema to manage users, portfolios, and category-based project galleries effectively.
- Implemented secure authentication and session management with Passport.js, adhering to encryption best practices and robust SDLC principles

### Keyword Extraction for News Articles on the 2024 Election:

November - December 2024

- Developed a Python-based system for extracting election-related terminology from news articles using advanced NLP techniques, and evaluated system performance with precision, recall, and F1-scores.
- Designed and tested a multithreaded Selenium scraper to process over 1,000 articles, integrating statistical and embedding-based models(YAKE, Word2Vec) for enhanced keyword extraction.
- Authored a comprehensive research paper and presented findings to peers and faculty

### Moodify Music Journal:

December 2024

- Developed (Python, JavaScript, HTML, CSS) a web app where users tag songs by mood to get personalized Spotify recommendations, view mood trends with interactive graphs, preview songs, and create playlists
- Spearheaded the development of a mood-to-audio-feature algorithm for song suggestions based on valence, tempo, and mode
- Managed team sprint board, delegated tasks, and coordinated progress to ensure the timely completion of project deliverables

## LANGUAGES

- Japanese: Fluent speaker
- Spanish: Fluent speaker and writer, Minor in Spanish at NYU; Study abroad program in Buenos Aires, Argentina - Spring 2024