Toshi Troyer

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EDUCATION

New York University - College of Arts & Science **Graduated 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

JavaScript, Python, Java, C, C++, R, Assembly, SQL, HTML, CSS, React, Node.js, Git, Azure, MongoDB

EXPERIENCE

Meade CPA-Software Engineering Intern: **July 2024 - Present**

- Designing and implementing a cloud-based system integrating Ocrolus's AI-powered APIs to automate tax and bank document processing, significantly reducing manual entry and turnaround time
- Engineering backend services and frontend components using JavaScript, Node.js, React, and Azure, applying API-first principles and secure development practices
- Collaborating with cross-functional partners at Meade CPA and Ocrolus, leading project timelines and ensuring smooth system integration

Varsity Tutors: **May 2024 - May 2025**

- Designed and led individualized computer science tutoring sessions by developing tailored lesson plans to address individual learning gaps and improve problem-solving skills
- Coordinated tutoring schedules across multiple students, demonstrating strong time management and personalized educational support capabilities

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

Keyword Extraction for News Articles on the 2024 Election: **November - December 2024**

- Developed (python) a system for extracting election-related terminology from news using NLP techniques, analyzing precision, recall, and F1-scores to evaluate keyword relevance and enhance understanding of political narratives during the 2024 election
- Designed and tested a multithreaded Selenium scraper to process 1,000+ articles, integrating statistical and machine learning models for keyword extraction
- Authored a research paper on the project and presented findings to peers and faculty as part of a formal research presentation

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

Creative Showcase App: **March - May 2025**

- Built (JavaScript, Next.js, Tailwind CSS, MongoDB) a full-stack portfolio web app for creative students to create and share personalized portfolio sites with category-based project galleries and custom URLs powered by dynamic routing
- Designed a MongoDB schema to manage users and their portfolios, including categories and their embedded projects
- Implemented secure authorization and sessions with Passport.js using encryption best practices

SPOKEN LANGUAGES

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