

# Alyssa Simon

Jersey City, NJ

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## EDUCATION

### New Jersey City University

Jersey City, NJ

Bachelor of Science in Computer Science and Information Systems

September 2020 - May 2024

- GPA: 3.9 | Presidential Scholarship Recipient
- Relevant Coursework: Web Development, Artificial Intelligence, Software Engineering, Data Structures and Algorithms, Database Design, Telecommunications and Networking, and Business Information Systems & Applications

## EXPERIENCE

### STEM Mentor

Jersey City, NJ

Proyecto Science @ NJCU

June 2024 - August 2024

- Supervised and mentored 25 middle school students for 6 weeks.
- Cultivated a supportive and inclusive environment to help students build confidence, overcome challenges, and develop essential skills for academic and personal growth.
- Assisted various teachers with tasks related to classroom management.
- Managed student information and records through Google Sheets, inputting data related to their school information for the program's ceremony.

### High School Math Tutor/Service Learning

Jersey City, NJ

University Academy Charter High School

September 2016 - June 2019

- Accumulated 300+ hours of tutoring high school students each school year in Algebra I, Algebra II, Geometry, and Precalculus leading to a 6-14% increase in their final grade average.
- Managed student data through MS Excel, tracking grades and overall academic progress to monitor improvement and identify areas needing additional support.
- Created personalized, hour-long lesson plans twice a week catering to each individual.

## PROJECTS

### AI vs. Human Essay Detector | Python

Spring 2024

<https://github.com/alyssasimons/detect-ai>

- Developed a machine learning model that explicitly determines whether an essay is AI or human-generated.
- Utilized the NLTK library to preprocess text data and implemented text classification techniques using the Support Vector Machine algorithm and TF-IDF vectorization for feature engineering.

### Student Library Management System | Java

Spring 2023

<https://github.com/alyssasimons/student-library-management-system>

- Developed a provisional student library management system in a team of 6 student peers.
- Functionalities intended to update book catalog, add/delete books, find patrons, & generate reports.
- Solely developed the system's front-end build (GUI) using Java Swing.

## TECHNICAL SKILLS

**Languages:** HTML/CSS, JavaScript, Python, Java

**Libraries/Frameworks/Tools:** React, Bootstrap, Node/Express.js, EJS, jQuery, VS Code, GitHub, Git, Figma

**Productivity Software:** Microsoft Word, Microsoft Excel, Google Sheets, Google Docs, Slack, Zoom