

# ELLIOT TUFARO

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## Education

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### New York University

Bachelor of Arts: Computer Science

Overall GPA: 3.55

September 2020 – May 2024

## Work Experience

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### Office Manager, NYU Athletics - Wrestling

January 2024 – May 2024

- Managed and submitted 40 expense reports for the coaching staff using SAP Concur, related to competition and recruitment travel.
- Created and oversaw a budget that kept track of spending on equipment, travel, and other team needs.
- Led the planning of a wrestling camp set for July 2024 which included setting up a registration website, organizing activities for participants, and coordinating with suppliers.

### Engineering Intern, BMR Energy

January 2023 – December 2023

- Used Transect to identify 500 parcels in New York that met the criteria necessary to host a solar farm or bulk energy storage device.
- Developed and implemented an automated address formatting script to streamline the preparation of raw address data for postcard production, enhancing efficiency and accuracy for a direct mail marketing campaign.
- Designed and mailed postcards with the goal of obtaining a lease from the owners of the previously mentioned parcels, resulting in a five percent response rate from recipients.
- Modeled existing and potential solar farms in AutoCAD utilizing Plex Earth for its topographical data and PVcase to position the frames.
- Imported the solar farms from AutoCAD into PVsyst and performed generation analysis using multiple sources for meteorological data.
- Optimized solar plant performance through iterative adjustments of panel tilt angles and DC-to-AC ratios. Presented refined strategies and outcomes to senior management for decision support.

## Projects

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### Connect 4

(HTML, CSS, JavaScript, Git)

- Implemented core game mechanics including piece placement, turn management, and win detection algorithms.
- Added animations for piece dropping and visual effects upon winning using the Canvas API and external libraries.
- Incorporated mouse event listeners for piece movement and placement, creating an interactive and intuitive game interface.

### Network Protocols Development

(Python, Matplotlib)

- TimeoutCalculator: Implemented an EWMA-based algorithm to calculate retransmission timeouts and visualized results using Matplotlib.
- Implemented Stop-And-Wait and Sliding Window protocols to ensure message delivery and manage retransmissions.
- Developed Additive Increase/Multiplicative Decrease algorithm to prevent congestion collapse, validated through simulations.

## Extracurricular Activities

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### Treasurer, NYU Kappa Sigma

August 2021 – August 2022

- Managed and oversaw the fraternity's financial operations, including budgeting, expense tracking, and financial reporting to nationals.
- Held members accountable for dues payments with favorable payment plans, reducing the delinquency rate by 14%.
- Negotiated with vendors and service providers to secure favorable terms and discounts, enhancing the fraternity's financial efficiency.

## Skills

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JavaScript, HTML, CSS, Python, C/C++, Java, Figma, Microsoft Office Suite, AutoCAD, PVcase, PVsyst, Transect, SAP