

JENNIFER TSANG

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EDUCATION

University at Buffalo, The State University of New York
Master of Science, Computer Science and Engineering

Anticipated December 2024

University at Buffalo, The State University of New York
Bachelor of Science, Computer Engineering (GPA: 3.8/4.0)
Minor in Mathematics

May 2023

PROJECTS

Calendar Web Application

Spring 2023

- Developed a calendar web app utilizing a HTML, CSS and JavaScript frontend, PHP backend, and MySQL database
- Strengthened application data security by refactoring database code to use prepared statements and hashing algorithms
- Collaborated with a team of 3 other students and a project manager in order to determine project requirements and divide project work between team members
- Ensured timely completion of project goals and project organization by managing development using Agile methods and Git version control

NLP Model for Sentiment Analysis

Spring 2023

- Built a CNN-LSTM model for classifying IMDB movie reviews with an accuracy of 85% using the TensorFlow Python library
- Optimized performance by building a data pipeline to normalize and tokenize review text before training

Cannon and Data-Gathering Computer

Fall 2022 – Spring 2023

- Designed computer system to display cannon data using an Arduino Mega microcontroller, sensors, and an LCD screen as part of a 3-member team
- Implemented a receiver for a data-gathering projectile by writing Arduino C++ code to parse projectile location data
- Documented project design and instructions for use in design documents and a user manual

EXPERIENCE

University at Buffalo Math Place, Buffalo, NY
Tutor

February 2020 – Present

- Tutor students one-on-one in 9 college calculus classes to improve student understanding of math concepts and math problem-solving skills
- Enhance student learning by collaborating with 16 tutors to implement a variety of teaching strategies

University at Buffalo Academic Bowl, Buffalo, NY
Treasurer

August 2022 – May 2023

- Coordinated biweekly events for a 15 member student club by managing event timelines and logistics, collaborating with other universities' clubs, and leading financial planning and discussion
- Increased club membership by 50% by engaging with students at student club tabling events

SKILLS

Programming Languages: Python, JavaScript, HTML, CSS, C++

Computer Skills: Windows OS, Linux OS, Microsoft Office, Jupyter Notebook, TensorFlow, Matplotlib, Git