

# DREW LICKMAN

## EDUCATION

Bachelor of Science in Computer Science, Minor in Entrepreneurship  
Middle Tennessee State University  
GPA: 3.63 | Dean's List 4 times

*August 2020 - December 2024*

**Key Coursework:** Natural Language Processing, Compiler Design, Artificial Intelligence, Data Structures & Algorithms, Computer Graphics, Computer Systems, Software Engineering, Visual Programming

## PROFESSIONAL EXPERIENCE

### Technology Specialist & Team Leader | MTSU Walker Library

*2022 - 2024 (3 years)*

- Experienced in software and hardware maintenance and repair
- Trained to use and teach all Makerspace equipment, such as 3d printers, CNC, laser etcher, etc.
- Provided technical support and troubleshooting for students and faculty across various software applications and hardware systems
- Managed and maintained computer equipment including printers, scanners, and multimedia devices
- Assisted users with software installations, network connectivity issues, and account access problems
- Spearheaded process improvements and developed training materials for new team members
- Authored batch scripts to streamline login processes to automate login processes, saving time for library technology staff
- Created detailed documentation for software programs and addressed workplace safety hazards
- Assisted in planning, setting up, and running events in the Library Makerspace

### Club Officer & Secretary | MTSU Esports Club

*2020 - 2022 (3 years)*

- Played key role in rebuilding club organization and maintained detailed records of meetings and files
- Created Discord server bot for the club to record and visualize statistics and entertain users with games
- Received "Outstanding Student" medal for exceptional contributions to club growth

## PROJECTS

### Natural Language Processing: N-Gram Language Model

*Fall 2024*

- Developed Shakespearean text generator using Python and NLTK library
- Optimized model performance and accuracy with significant quality improvements
- [github.com/MagicalMongoose/NLP/tree/main/Projects/Project\\_2\\_N-gram\\_Text\\_Generator](https://github.com/MagicalMongoose/NLP/tree/main/Projects/Project_2_N-gram_Text_Generator)

### 2D Platformer: "Code Runner"

*Spring 2024*

- Led 5-person team to create Unity 2d platforming video game, managing project via GitHub and Trello
- Programmed core mechanics including player movement and enemy AI systems
- [github.com/MagicalMongoose/Code-Runner](https://github.com/MagicalMongoose/Code-Runner)

### Driving Simulator Data Analysis Web Application

*Fall 2023*

- Directed team of 6 to develop visualization web app using D3.js
- Implemented data processing algorithms and utilized Agile methodologies
- [github.com/VU-RASL/Vanderbilt-Driving-Simulator](https://github.com/VU-RASL/Vanderbilt-Driving-Simulator)

## INFO

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## TECHNICAL SKILLS

### Languages:

Python  
C#  
C++  
JavaScript  
HTML/CSS

### Tools & Technologies:

Microsoft Word  
Microsoft Excel  
Microsoft PowerPoint  
Microsoft Outlook  
Adobe Photoshop  
Adobe Premiere Pro  
Adobe Illustrator  
Unity  
Git Version Control

### Specialties:

AI / ML Development  
Natural Language Processing  
Software Development  
Digital Content Creation

## SOFT SKILLS

### Leadership:

Team leadership & management  
Teaching and mentoring

### Problem Solving:

Independent initiative to make improvements  
Critical thinking  
Project management

### Communication:

Precise documentation  
Adaptability  
Attention to detail