

# Daniel Ladipo

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## EDUCATION

### The Pennsylvania State University

*Bachelor of Science in Computer Science, Minor in Cybersecurity*

State College, PA

Aug. 2024 – May 2028

## PROFESSIONAL EXPERIENCE

### Nittany AI Machine Learning Developer

*Penn State*

Aug. 2024 – Dec. 2024

*State College, PA*

- Created 4 AI-driven projects over 8 weeks using Python, implementing machine learning models like linear regression, neural networks, and retrieval-augmented generation (RAG).
- Leveraged Google Colab's GPU capabilities to accelerate the training and optimization of machine learning models, reducing computation time by 30%.
- Worked with a multidisciplinary team to explore the environmental benefits of AI, focusing on sustainable technology applications.

### Roblox Developer Forum Apprentice

*South Cobb HS*

Oct. 2020 – Nov. 2023

*Atlanta, GA*

- Developed a complete user interface for an MMORPG game with 89,000+ visits using Lua, elements from the server script service, and the user input in ROBLOX Studio.
- Collaborated with other developers and participated in the ROBLOX Developer Forum, sharing expertise, offering guidance, and contributing to discussions on game development techniques and troubleshooting.

## LEADERSHIP EXPERIENCE

### Multicultural Innovators in Computer Science

*Penn State University*

Sep. 2024 – Present

*State College, PA*

- Co-founded MICS to promote diversity and support underrepresented students in computer science by advocating for community and providing mentorship and networking opportunities.
- Developed the official website for MICS using HTML/CSS and JavaScript to showcase the organization's mission, executive board, upcoming events, and resources.
- Collaborated with Dr. Chita Das, the Head Department Chair of Computer Science at Penn State, to discuss establishing a subgroup called FICS focused on supporting and bringing more women into the computer science field.

### Choir Master

*MFM House of Freedom*

Jun. 2021 – Aug. 2024

*Lithia Springs, GA*

- Served as the choir master and pianist, leading multiple songs in praise and worship during Sunday services.
- Created and arranged original gospel compositions that have been featured on Christian music albums.

## PROJECTS

### Thrive Together

Nov. 2024

- Developed "Thrive Together," a mental health resource website for college students, using HTML, CSS, and JavaScript.
- Designed an interactive platform to provide tools and resources for stress management, career planning, and awareness.
- Generated over 15,000 visits to the platform, including over 900 from my college community.

### MNIST Handwritten Digit Classification from Scratch

Sep. 2024

- Implemented a machine learning algorithm from scratch to classify handwritten digits using NumPy, Pandas, and Matplotlib.
- Processed 60,000+ training images by normalizing pixel values, vectorizing input data, and splitting datasets for accurate model training and evaluation.
- Built a logistic regression model, leveraging gradient descent optimization and cross-entropy loss, to classify the digits with a final test accuracy of 85% on 10,000 test images.

### Iris Flower Classification Project

Sep. 2024

- Created a logistic regression model to classify Iris flower species with 98% accuracy using Python and scikit-learn.
- Visualized data using Seaborn and Matplotlib to identify patterns and correlations between flower features.
- Tuned model parameters to enhance prediction accuracy and reduce classification errors.

## TECHNICAL SKILLS

**Languages:** C++, Python, Ruby, Kotlin, Perl, HTML/CSS, JavaScript, LUA, SQL and PostgreSQL.

**Developer Tools:** Git, VS Code, Pandas, NumPy, PyCharm, Jupyter

**Coursework:** Programming and Computation 1: Fundamentals, Differential Calculus, Linear Algebra and Discrete Mathematics (Khan Academy), Harvard CS50