

Daniel Ladipo

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EDUCATION

The Pennsylvania State University

Bachelor of Arts in Computer Science, Minor in Cybersecurity

State College, PA

Aug. 2024 – May 2028

TECHNICAL SKILLS

Languages: C++, Python, JavaScript, LUA and SQL Tools Technologies: HTML/CSS

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

PROFESSIONAL EXPERIENCE

Nittany AI Machine Learning Apprentice

Aug. 2024 – Present

Penn State

State College, PA

- Created **6** AI-driven projects over 8 weeks using Python, implementing machine learning models like linear regression, neural networks, and retrieval-augmented generation (RAG).
- Worked with a multidisciplinary team to explore the environmental benefits of AI, focusing on sustainable technology applications.

Roblox Developer Forum Coder

Oct. 2020 – Nov. 2023

South Cobb HS

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 (MICS)

Sep. 2024 – Present

Penn State University

State College, PA

- Co-founded MICS to promote diversity and support underrepresented students in computer science by providing mentorship and a strong community network.
- Developed the official website for MICS using HTML, CSS, and JavaScript to showcase the organization's mission, executive board, upcoming events, and resources.
- Met with Dr. Chita Das, the 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

Jun. 2021 – Aug. 2024

MFM House of Freedom

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.

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