

Daniel Ladipo

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EDUCATION

The Pennsylvania State University

Expected: May 2028

Bachelor of Science in Computer Science, Minor in Cybersecurity

PROFESSIONAL EXPERIENCE

Nittany AI

State College, PA

Machine Learning Intern

Aug 2024 – Dec 2024

- Created 4 AI-driven projects over 8 weeks using Python, implementing machine learning models like linear regression, neural networks, and retrieval-augmented generation (RAG).
- Designed and developed RESTful APIs to seamlessly integrate machine learning solutions into production environments, ensuring scalability, reliability, and efficient data flow between AI models and end-user applications.
- Collaborated with a multidisciplinary team of data scientists, engineers, and domain experts to research and develop AI-driven sustainable technology applications, focusing on environmental impact and energy efficiency.

Roblox Developer Forum

Atlanta, GA

Coding Apprentice

Oct 2020 – Nov 2023

- Developed a complete user interface for an MMORPG game with 425,000+ visits using Lua, elements from the server script service, and the user input in ROBLOX Studio.
- Designed and implemented **interactive UI components**, including **inventory systems, health bars, in-game menus, and skill trees**, improving user engagement and accessibility.
- 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

State College, PA

Social Media Director

Sep 2024 - Present

- Co-founded MICS to foster an inclusive community that supports underrepresented students in computer science by providing mentorship, networking opportunities, and advocacy for diversity and equity within the field.
- 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.
- Partnered with industry leaders such as Lockheed Martin, FedEx, EY, and National Instruments to create internship pipelines, host technical workshops, and provide career mentorship opportunities for MICS members.

Choir Master

Lithia Springs, GA

Lead Pianist

Jun 2021 – Aug 2024

- 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

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.
- Developed 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

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

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