Daniel Ladipo

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Education

The Pennsylvania State University — State College, PA
Bachelor of Arts in Computer Science, Minor in Cybersecurity — *Aug. 2024 – May 2028*

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

Professional Experience

Nittany AI Machine Learning Developer — Aug.2024 – Dec.2024
Penn State — *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 — 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 Website — Sep.2024 – Present
Penn State University — *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 — 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 Website — 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 GitHub — 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 GitHub — 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.