Daniel A. Ladipo

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EDUCATION

The Pennsylvania State University — **Expected: May 2028**
Bachelor of Science in Computer Science, Minor in Cybersecurity — GPA: 3.4/4.0

PROFESSIONAL EXPERIENCE

Nittany AI — **State College, PA**
Machine Learning Intern — Aug 2024 – Dec 2024
- Created **4** AI projects over 8 weeks using machine learning models like linear regression, neural networks, and retrieval-augmented generation (RAG)
- Designed and developed RESTful APIs to integrate machine learning solutions into environments, ensuring scalability, reliability, and efficient data flow
- Collaborated with a team of data scientists, engineers, and domain experts to research and develop sustainable technology applications

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 user input
- Designed interactive UI components, including inventory systems, health bars, in-game menus, and skill trees, improving user engagement
- Collaborated with developers in the ROBLOX Developer Forum, sharing expertise, offering guidance, and discussions on game development techniques

Sea, Land, & Air Robotics Competition — **State College, PA**
Coder — *Jun.2024- Jul.2024*
- Worked with a group of five to program a fully autonomous vex robot to avoid obstacles, follow a GPS-tracked line, and be able to pick up debris
- Delivered an organized presentation representing the steps taken to program and execute the code pertaining to the robot
- Collaborated with teammates by troubleshooting coding errors and refining the robot's functionality through iterative testing and debugging.

LEADERSHIP EXPERIENCE

Multicultural Innovators in Computer Science — **State College, PA**
Social Media Director — Sep 2024 - Present
- Co-founded Multicultural Innovators in Computer Science 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 MICS website using HTML, CSS, and JavaScript to highlight the organization's mission, leadership, events, and resources
- Partnered with industry leaders such as Lockheed Martin, FedEx, EY, and National Instruments to create internship pipelines for members

NSBE Technical Outreach Community Help (T.O.R.C.H.) — **State College, PA**
TORCH Committee — Jan 2025 - Present
- Led STEM outreach initiatives, organizing hands-on activities, mentorship programs, and community service projects
- Conducted technology training sessions for adults and youth, increasing digital proficiency in modern software applications within the community
- **Facilitated hackathons and coding bootcamps** for students, introducing fundamental programming concepts through interactive challenges.

PROJECTS

Thrive Together | [Website] | HTML/CSS/JavaScript — 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 [Website] | **NumPy/Pandas/Matplotlib** — 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
- Leveraged gradient descent optimization and cross-entropy loss to classify digits with a test accuracy of **85%** on **10,000** test images

Iris Flower Classification | [Website] | **Scikit-learn/Matplotlib/Pandas/Seaborn** — 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
- **Tools & Technologies**: Git, VS Code, Pandas, NumPy, PyCharm, Jupyter, Colab
- **Coursework:** Programming and Computation 1: Fundamentals, Differential Calculus, Discrete Mathematics (Khan Academy), Harvard CS50

HONORS & AWARDS

- Best Autonomous Award of SLA Robotics | Bunton-Waller Merit Award | Poetry Nation's National Amateur Poetry Competition Semi-Finalist