# Daniel A. Ladipo

danielladipo@gmail.com | https://www.linkedin.com/in/daniel-ladipo/ | https://github.com/5k-dan | https://ladiposportfolio.netlify.app/

## 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
- Developed sustainable tech applications alongside engineers and data scientists, contributing to a project that improved model efficiency by 14%

**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 build a community that supports underrepresented students in computer science
- 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
- Led hackathons and coding bootcamps, introducing **100**+ students to Python and web development through hands-on 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\

**Alumni Portal | Full-Stack Web Application** | HTML/CSS/JavaScript                 Sep 2024
- Built a fully responsive **web platform** to connect engineering graduates and students at Penn State for networking, mentorship, and career opportunities.
- Developed a secure user authentication system (registration, login, and profile management) using localStorage for persistent user data.
- Integrated an interactive alumni directory with UI/UX, storing user data locally and to browse and network with alumni for professional opportunities.

**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

## SKILLS

- **Languages:** C++, Python, Ruby, Kotlin, Perl, HTML/CSS, JavaScript, LUA, Java, MongoDB, React, SQL and PostgreSQL
- **Tools & Technologies**: Git, VS Code, Pandas, NumPy, PyCharm, Jupyter, Colab, Figma
- **Coursework:** Programming and Computation 1: Fundamentals, Data Structures & Algorithms, Differential Calculus, Harvard CS50

## HONORS & AWARDS

- Best Autonomous Award of S.L.A Robotics | Bunton-Waller Merit Award | Poetry Nation's National Amateur Poetry Competition Semi-Finalist