Dalitso Rodgers Nyirenda

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EDUCATION

BSc in Computer Science, Minor in Business GPA: 3.68 August 2024 - May 2028
Grambling State University | Grambling, LA
Relevant Coursework: OOP, GUI, Computer Science I & II, Web 101, Calculus I, Chemistry I, Physics I & Lab

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C#, SQL, HTML/CSS
Tools & Platforms: Git, GitHub, Visual Studio, PyCharm, Cursor, DeepSeek R1, Microsoft office, Perplexity
Technical Concepts: Object-Oriented Programming (OOP), Debugging, UX/UI Design, Prompt Engineering
Soft Skills: Team Collaboration, Critical Thinking, Problem-Solving, Adaptability, Customer Service

EXPERIENCE

Extern, (Classroom Central Communication Strategy) PwC April 2025 – June 2025
Extern | Remote

- Conducted research on MedShare, Soles4Souls, and DoorDash to **design a $1,500 pilot plan** with an online portal, mobile drives, and supply hubs, **improving distribution efficiency** for 162,000+ students.
- Developed innovative "Teacher Supply Kits" using **predictive analytics** , **reducing setup time by 25%** , and delivered a 10-slide PowerPoint presentation to secure stakeholder approval by July 2025.

Summer Sizzle 25 Researcher July 2025
SMART Hub | Baylor University

- Mastered Wireless and Microwave Engineering topics through hands on use of equipment worth hundreds of thousands and **MATLAB** and earned a Certificate of Completion.
- Collaborated on **radar technology projects** with professors and students using advanced tools to deliver a successful solution, enhancing **team skills** and **industry readiness.**

Research Assistant August 2024 - December 2024
LS-LAMP Research Program | Grambling, Louisiana

- Conducted **DNA extraction** and **Western blot analysis** to investigate protein expression patterns, ensuring precise identification of target proteins. Optimized experimental protocols, leading to a **10% improvement in accuracy and reliability of results.**
- Analyzed **gel electrophoresis** results and documented findings, ensuring **data accuracy** and contributing key insights to a **STEM-focused research project.**

PROJECTS

Flappy Bird Clone

- Built a Flappy Bird-inspired game using **Unity** and **C#**, implementing gravity, collision detection, and object pooling to ensure smooth gameplay across **100% of tested devices**.
- Debugged build issues and optimized UI scaling, **increasing cross-platform stability by 50%** and improving user experience on desktop and mobile.
- **Showcased creativity and problem-solving** by independently designing game mechanics, menus, and logic within Unity's game loop architecture.

Facial Recognition System

- Building an **AI-powered facial recognition system** using **Python, OpenCV, pgvector and OpenAIClip**.
- Achieved **92% accuracy** in facial identification by fine-tuning deep learning models.
- Integrated **real-time face detection** and **recognition**, improving **processing speed by 30%** through algorithm optimization.

AI Fake News Detector

- Built an AI-powered fake news detection system using **Python, Pandas, NLTK**, and **Scikit-learn**.
- Achieved **94% accuracy** in classifying news articles by **training a logistic regression model** on TF-IDF features.
- Integrated text preprocessing and vectorization, **improving processing efficiency by 25%** through optimized tokenization.

HONORS AND CERTIFICATIONS

- Academic Achievemen t Award, Grambling State
- University New Seasons Youth Program Scholar
- Alpha Lambda Delta Honor Society – Recognized for academic excellence in the first year
- IBM Enterprise Design Thinking Practitioner Certificate
- IBM Introduction to AI Certificate