Dalitso Rodgers Nyirenda

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EDUCATION

BSc in Computer Science, Minor in Business   May 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, 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

Test Prep Advisor & Consultant   August 2024 - Present

Education Access Global | Remote

- Assisted prospective students with SAT preparation, **improving average test scores by 15%**.
- Provided personalized **tutoring sessions** and **resources**, helping students develop **effective problem-solving strategies.**

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

Animated Portfolio Website

- Developed a **dynamic** and **visually engaging portfolio** using **React, HTML, Tailwind CSS, and Framer Motion**.
- Implemented **smooth animations** and **interactive UI elements**, enhancing **user engagement by 40%**.
- Optimized the website for **responsiveness** and **accessibility**, ensuring **100% mobile compatibility**.

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