Adir Ali Yerima Bryan

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EDUCATION

Information Technology (IT) Pathway   *August 2021 – Present*
Innovation Academy STEM Magnet High School   GPA: 96/100
- **Relevant Coursework**: Introduction to Digital Technology, Introduction to Cybersecurity, Advanced Cybersecurity, Logistic and Mathematical, CS50's introduction to Computer Science

SKILLS

Cybersecurity: CompTIA Security+ Certificate
Computer Languages: Python (Intermediate), HTML (Intermediate), CSS (Intermediate)
Languages: French (Native), English (Fluent)
Operating Systems: Windows (Intermediate), Linux (Intermediate), Kali Linux (Intermediate)

EXTRACURRICULAR

Raspberry Pi Hackathon   *August 2023*
- Collaborated with industry leaders from Drone iVue and MantisEdu to develop a drone-based weather data collector system.
- Integrated engineering concept with web development principles to visualize collected weather data on a map.
- Applied design thinking methodologies to incorporate weather sensors into drone technology.
- Tested the system in an outdoor environment, successfully collecting and processing data and precipitation, weather, altitude, humidity, temperature, and pressure through algorithms on a Raspberry Pi.
- Analyzed the collected data, delivered a pitch during a showcase event, and received valuable feedback from industry professionals.

Zilla Company Improvement Workshop   *March 2024*
- Collaborated with the CEO and co-founder of Zilla Gigs, a platform empowering teenagers in earning opportunities.
- Gained valuable insights into their entrepreneurial journey, including Volterra Semiconductor LLC's successful public company.
- Proposed a teen-friendly interface with a free trial feature to foster trust between users and parents.
- Received first place recognition for the feasibility and content of the proposed solution, showcasing innovative and problem-solving skills.

ACADEMIC PROJECTS

Password Management System   *September 2024- October 2024*
- Conducted Research to analyze the API structure and evolution of various password management systems, gaining insight into industry best practices.
- Implemented basic Python algorithms for encryption and decryption of passwords, a core functionality of password management solutions.
- Prepared a comprehensive presentation to showcase research finding and explore potential enhancements to improve user accessibility.
- Tested the developed system and investigated methods to provide a user-friendly interface beyond the traditional Vs Code IDE used.

Comparative Study of Deep and Machine Learning in Detecting Phishing Attacks   *January 2024 – May 2024*
- Developed deep learning model utilizing Convolutional Neural Network (CNN) and Recurrent Neural Network (LSTM) for phishing attacks on a dataset of over 345,000 phishing URLs.
- Achieved 99.25% accuracy with the CNN model and 92.8% accuracy with the RNN-LSTM model in identifying phishing URLs, compared to 99.17% accuracy for a Random Forest classifier.
- Conducted comparative analysis and evaluation of deep learning and machine learning algorithms for phishing detection, contributing valuable insight to cybersecurity research.

ACHIEVEMENTS

- 2x Rise award: Recognized for outstanding willingness to learn, integrity, empathy, and self-motivation   *November 2024*
- Member of Mu Apha Theta: National Mathematics Honor Society   *December 2022 - May 2023*
- Research Scholar Award: Highest average in Scientific independent research in grade level   *March 2023*
- Talented and Gifted Education (TAG): Program participant for 2 years   *2023-Present*
- College Board National African American Recognition   *March 2021*