GERALD AMOS SHIMO

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EDUCATION

University of Arkansas at Pine Bluff - *Cumulative GPA: 4.0/4.0*   **Pine Bluff, Arkansas**

Major: B.S Computer Science, B.S Mathematics   **Expected May 2027**

Certification: Google Data Analytics●Machine Learning with Python●Introduction to Python

Relevant Coursework: Computer Science I & II ● Calculus I & II ● Python (Google Advanced Data Analytics, Coursera)●Odin Project●Machine Learning Specialisation●Data Structures and Algorithms

Honors and Awards: University Scholarship (Four years), Chancellor's List (Fall 2023 & Spring 2024)

SKILLS

Software: Microsoft Applications, Excel, Visual Studio, Database server, Joomla, Tableau, BigQuery

Programming Languages: Visual Basic (beginner), C++, Python, Java, Javascript, Julia, R(Intermediate), SQL, Nodejs, html, Css, React

Language: English, Shona

EXPERIENCE

October 2023-Present   **University of Arkansas at Pine Bluff**   Pine Bluff, Arkansas

Lab Assistant

- Specializing in the characterization of 2D quantum materials, leveraging and combination of analytical techniques and laboratory research
- Attend 2-hour weekly professional development meetings to improve safety and research skills

July 2024-Present   **Headstarter AI fellowship**   Remote

AI Project Developer

- Developing and deploying AI projects, showcasing strong problem-solving and technical skills, continuously creating more AI projects to explore new technologies and applications.
- Gaining and honing key skills in teamwork, collaboration, division of labor, and leadership through project work, leading project teams, effectively delegating tasks, and ensuring the successful completion of objectives.

PROJECTS

3D Graph Revolution Plotter: [Plotter](#)   January 2024, Pine Bluff, AR

- Developed a Python script using `matplotlib` to visualize the 3D revolution of a mathematical function around a specified axis. Users input a function and axis ('x', 'y', or 'z'). The script generates a 3D plot and calculates the volume of revolution in terms of pi.

Case Study: Australia Rainfall Patterns: [Case study](#)   May 2024, Pine Bluff, AR

- Completed a machine learning case study for a course final project, analyzing Australia's rain patterns using techniques like decision trees, SVM, and regression to predict future rain. I also evaluated each model's performance using metrics such as accuracy score and Jaccard index.

Telehealth: [Telehealth Platform](#)   June 2024, Pine Bluff, AR

- Developed a Telehealth platform for appointment scheduling, first aid catering via an integrated chatbot, enhancing healthcare access and convenience. Utilized HTML, CSS, JavaScript, Node.js, Express.js, and Bootpress, and learned advanced backend integration, data security, and user interface design. Improved patient satisfaction and accessibility.

Inventory Management System: [Inventory app](#)   July 2024, Pine Bluff, AR

- Developed a web application to manage pantry inventory using React and Firebase. Implemented features for adding, searching, updating, and deleting items with real-time updates. Created an intuitive interface using Material-UI components.
- Learned and applied skills in teamwork, collaboration, division of labor, and leadership.

AI-Rate-My-Professor: [Rate-My-Professor-App](#)   August 2024, Pine Bluff, AR

- Developed an AI-powered web application using Retrieval-Augmented Generation (RAG) to assist students in finding suitable professors by analyzing personalized queries; integrated OpenAI's GPT for natural language processing and Pinecone's vector database for efficient information retrieval.
- Built a responsive, interactive interface with Next.js and Material-UI, deployed on Vercel, allowing real-time professor recommendations based on ratings, teaching styles, and course difficulty, enhancing the student decision-making process.

LEADERSHIP & PROFESSIONAL DEVELOPMENT

January 2020-December 2021   **Junior Achievers Zimbabwe**   Harare, Zimbabwe

Information and Communications Technology (ICT) Manager

- Managed member data integrity and security, while leveraging social media for project promotion, enhancing organizational visibility; gained problem-solving and time management skills in the process.

February 2019-December 2021   **Christian Life Community**   Harare, Zimbabwe

Supervisor

- Successfully promoted community growth through efficient information dissemination and proactive member recruitment, while showcasing strong leadership by overseeing diverse services and activities, ensuring their successful alignment with organizational objectives.

CLUBS & ORGANIZATIONS

Carolyn F. Blakely Honors Program, National Society of Black Engineers, Mathematical Association of America, Stem Academy