Ruvarashe Nyabando

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EDUCATION

Alabama A&M University Huntsville, AL

Bachelor of Science in Electrical Engineering, GPA:3.95 *Expected May 2027*

Relevant Coursework: Engineering Computing in C++, Linear Circuit Analysis, Analog Circuits, Applied Differential Equations, Digital Circuit Analysis, Calculus III

Achievements & Honors: Honors Program Scholar, 3rd Place Team FICO Educational Analytics Challenge (2025) , 1st Place STEM Day Poster (2024), 3rd Place HP FOWA Innovation Incubator (2024), 3rd Place Team Mastercard x AUC Data Challenge (2024), 4th Place Lincoln Financial Group Pitch Competition (2023)

TECHNICAL SKILLS

Languages and Tools: Python, C++, JavaScript, Arduino, Linux, Git, MATLAB, Multisim, SQL, KiCAD

EXPERIENCE

Data Analytics Intern May 2025 – Aug. 2025

FICO | San Diego, CA

- Developed a synthetic data generation pipeline generating 1100 multi-turn banking conversations using open-source LLMs, integrating LangChain and Ollama for workflow efficiency.
- Finetuned a large language model with parameter-efficient methods for banking conversation classification achieving a F1 score of 0.80 and outperforming the baseline model.

Computational Research Intern May 2024 – Aug. 2024

Fermilab | Batavia, IL

- Processed and analyzed particle decay data from the Compact Muon Solenoid using Python libraries (**dask, Pandas**) for parallel data processing workflows on a **Linux** system.
- Optimized soft drop algorithm parameters for improved data analysis in the Large Hadron Collider, reducing the data processing time of over 5000 files by approximately 10%.

Tutor and Writing Consultant Feb. 2024 – Present

Alabama A&M University | Huntsville, AL

- Tutored an average of 10 students per week in mathematics and engineering courses to develop good study habits.

Venture Capital Researcher Feb. 2024 – Mar. 2024

Energy Innovation Capital | Remote

- Analyzed renewable energy market data from Crunchbase using Python (NumPy, Pandas) to evaluate essential key metrics, including investments, funding rounds, and company growth.
- Applied variable estimation techniques, including market sizing and revenue projection, to predict future industry trends using Matplotlib for data visualization to provide data-driven recommendations for stakeholders.

PROJECTS

FICO Educational Analytics Challenge – Credit Card Fraud Detection Jan. 2025 – Apr. 2025

- Developed and trained a neural network for credit card fraud detection in transactions, achieving a 89% fraud detection accuracy rate through feature engineering and hyperparameter tuning.

AAMU HOPE & OPS Program Aug. 2024 – Apr. 2025

- Designed a schematic for a light sensor and PCB in KiCad and utilized Design Rule Checker for PCB testing to ensure compliance with footprint specifications.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Institute of Electrical and Electronics Engineers, Treasurer | Google Student Developer Group AAMU, Secretary | Society of Women Engineers, Member | Code20240 Fellow | Colorstack | Black Girls CODE Fellow | Academic Data Science Alliance, Presenter |Gulf Coast Undergraduate Symposium, Speaker