Rayaan Muhammed

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SUMMARY

I am a junior (3rd year) Computer Science major hoping to make an impact in the corporate tech world by prioritizing ethics, and focusing on safe and efficient practices.

EDUCATION

Tuskegee University Tuskegee, AL
Bachelor of Science Computer Science Expected May 2027
GPA: 3.6

EXPERIENCES & PROJECTS

Personal Portfolio Website **Mar 2026-Present**

- Engineered a responsive personal portfolio to showcase a curated gallery of technical projects and professional milestones.
- Programmed with **HTML** and **CSS** and leveraged **GitHub Copilot** to optimize development velocity, utilizing AI-assisted pair programming to streamline boilerplate code and logic.
- Implemented **modular CSS architecture** and semantic HTML to ensure cross-browser compatibility and high performance.
- Prioritized **scalable code design**, focusing on functional programming principles to facilitate future feature expansion.

Tuskegee University Teacher's Assistant **Sep 2025 - Current**

- Assisted students in understanding core programming concepts including **classes, objects, pointers, arrays, and dynamic memory management in C++**.
- Provided coding support to students, reinforcing **debugging** strategies and **logical problem-solving**.
- Helped students **troubleshoot compiler errors** and improve their understanding of program structure and efficiency.
- Strengthened personal mastery of object-oriented programming, through **teaching and peer collaboration**.

Haircut Price Analysis Project **Sep 2025-Oct 2025**

- Manually collected **data** from Booksy into **Microsoft Excel**
- Loaded/cleaned data in using **Pandas**
- **Used pandas** to find the mean, median, mode, variance, and standard deviation of key metrics
- **Used the seaborn module** to visualize the data into box charts, bar charts, and histograms

fMRI Tuskegee University Research **May 2025 - Jul 2025**

- Engaged in a project doing fMRI Research on Alzheimer's patients
- Visualized DICOM images and converted them to NiFti format using Python's dcm2nifit library
- Used different libraries in Python such as **pydicom, nibabel, matplotlib, numpy, and os**
- Extracted data from a time series
- **Streamlined** the preparation pipeline for **thousands of** patient brain images, improving efficiency for subsequent data analysis and research.

RELEVANT COURSES

C++ Programming, Fundamentals of Computer Science, Pre-Calculus Algebra & Trigonometry, Calculus I/Analytical Geometry, Calculus II, Discrete Math, Big Data in Python, Theory of Computation