

# Kolade Alabi

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## EDUCATION

### The University of Texas Rio Grande Valley

Expected: May 2023

*B.S. Computer Science*

*Major GPA: 4.0 | Cumulative GPA: 3.7*

**Relevant Coursework:** *Data Structures and Algorithms, Software Engineering I, Computer Science I/II, Introduction to Data Science, Object Oriented Programming in Python, Linear Algebra, Applied Statistics*

## TECHNICAL SKILLS

**Languages:** C/C++ (1-2yrs), Python (1yr), JavaScript (1yr), R (0-1yrs), HTML/CSS (1-2yrs)

**Developer Tools:** Git, VS Code, Visual Studio, SQLite, Heroku

**Libraries:** pandas, NumPy, Matplotlib, Scikit-learn, scipy, Flask

## EXPERIENCE

### The University of Texas Rio Grande Valley

Edinburg, TX

*Undergraduate Research Assistant*

*Aug 2022 – Present*

- Discovered novel applications of Transfer Learning by analyzing and drawing conclusions from 5 research papers on its applications in medicine
- Held multiple meetings with University professors to plan research project in preparation for a conference paper submission
- Researched optimal methodologies for predicting Alzheimer's in patients with blood samples

*Peer-Led Team Learning Leader*

*Aug 2022 – Present*

- Lead the Team Learning session for Computer Science 2 and developed weekly lesson plans by collaborating with class instructor
- Delivered insightful concept reviews, resulting in 89% retention of students from the original course

### Computer Science Summer Institute, Google

Remote

*Online Participant*

*July 2022 – Aug 2022*

- Participated in a 4-week intensive computer science summer program for high-achieving students
- Completed an introductory project-based HTML/CSS and JavaScript curriculum taught by Google engineers
- Configured 3 individual coding projects in JavaScript by using concepts such as data types and functions
- Attended product design, resume development, and software engineering interview workshops
- Delivered a collaborative final project presentation that included a live demonstration to Google employees and community leaders

## PROJECTS

### GameQuery/RAPI | *Python, Flask, SQLite, Bulma, Heroku*

Aug 2022 – Present

- Developed a full-stack web API with a flask server hosted on Heroku by decreasing initial slug size by over 50% with elimination of unnecessary dependencies
- Utilized IGDB games API to store information of over 200,000 video games in SQL database to power ranking functionalities
- Created ranking function to parse queries and finding relevant games, returning results in less than 5 seconds through the use of structured natural language processing

### Wayfinder | *Python, Flask, PythonAnywhere, HTML/CSS, JavaScript, Bulma*

Aug 2022 – Present

- Collaborated with 2 other team members to complete the entire developmental process within 2 days and meet the submission deadline for Cohere AI Hackathon
- Employed Cohere AI's word embeddings, by way of a custom API making use of the Cohere embedding model, to enable semantic searching functionality

## ACTIVITIES

### Obsidian Second Brain

March 2021 – Present

*Personal Endeavor*

- Nurtured a representation of knowledge gained within the last year, including academic education, personal learning, and academic research, to make better connections between concepts