

# Kolade Alabi

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## Education

### The University of Texas Rio Grande Valley

Edinburg, TX

Bachelor of Science in Computer Science, GPA: 3.8/4.0

August 2022 - May 2023

- **Coursework:** Data Structures and Algorithms, Software Engineering I, Deep Learning, Introduction to Data Science, Programming in Unix/Linux, Computer Science I/II, Object Oriented Programming in Python, Advanced Data Mining & Machine Learning, Automata Theory, Applied Statistics

## Experience

### JP Morgan Chase

Houston, Tx

Software Engineer

August 2023 - Present

- Developing a .NET PowerPoint tool to streamline the process of creating business presentations for more than 70,000 users
- Refactoring Apache Solr powered search to AWS OpenSearch searching and indexing and MongoDB Atlas storage
- Execution Excellence Award Q1 2024: One of 5 recipients out of ~200 JPMC SEP engineers for contributions to the modernization of key application modules and sharing of expertise on AWS ECS and OpenSearch

### Carnegie Mellon University

Remote

Research Intern

July 2023 - Present

- Assisted student researchers and algorithm leads from various Universities to run DISCA models and methods, including the development of a Singularity container definition to allow researchers to install and run DISCA automatically
- Researched Deep Learning Cryo-Electron Tomography research papers to help develop DISCA methods further

### Capital One

McLean, VA

Software Engineering Intern

June 2023 - August 2023

- Enabled Universal Deep Link servicing across all channels for partners like Walmart, Google Autofill, and Zelle
- Implemented changes increasing ease of access to Enterprise Account Servicing Experience (EASE) application, improving linking experience for 38 million users
- Deployed a PostgreSQL database on Amazon Aurora, eliminating the use of a middleman service and reducing expenses by 19%
- Made use of Java Spring boot to generate and tokenize/detokenize refactored hyperlinks, following TDD throughout the process

### The University of Texas Rio Grande Valley

Edinburg, Tx

Undergraduate Research Assistant

August 2022 - May 2023

- Discovered novel applications of Transfer Learning by analyzing multiple research papers on its applications in medicine
- Held multiple meetings with University professors to plan research projects in preparation for a conference paper submission
- Researched optimal methodologies for predicting Alzheimer's in patients with blood samples
- Invited to present research findings by Google Computer Science Research Mentorship Program

Teaching Assistant

August 2022 - December 2022

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

## Activities

**Microsoft**, Technology Education and Learning Support Program

September 2024 - Present

**Google**, Computer Science Research Mentorship Program

February 2023 - May 2023

- Selected to be a part of Google's Computer Science Research Mentorship Program (CSRMP) 2023 Class A
- Received computing research mentorship from a Google researcher with a focus on Natural Language Processing

**Google**, Computer Science Summer Institute

July 2022 - August 2022

- Participated in a 4-week intensive computer science summer program for incoming college students led by Google engineers
- Engineered 16 webpages using JavaScript, HTML/CSS, and Bulma including a collaborative final project presented to 30+ people including Google Employees

## Skills

**Languages:** Python, C/C++, C#, JavaScript, R, Java, SQL, HTML/CSS

**Developer Tools:** Git, JetBrains, Visual Studio, SQLite, Slurm, Apache Jmeter, Jenkins, SonarQube, Terraform, AWS, MongoDB, OpenSearch

**Frameworks:** TensorFlow, Keras, Scikit-learn, Flask, Django, FastAPI, Spring Boot, React, .NET