Kolade Alabi

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Education

University of Maryland, College Park   *College Park, MD*
Master of Science in Computer Science   *Expected May 2027*
- **Key Coursework**: Machine Learning Theory, Uncertainty Communication for Decision-Making, Advanced Computer Graphics

The University of Texas Rio Grande Valley   *Edinburg, TX*
Bachelor of Science in Computer Science, GPA: 3.8/4.0   *August 2022 - May 2023*
- **Key Coursework**: Data Structures and Algorithms, Deep Learning, Object Oriented Programming, Advanced Data Mining & Machine Learning

Experience

JPMorgan Chase   *Houston, TX*
Software Engineer   *August 2023 - August 2025*
- Developed a .NET PowerPoint add-in that streamlined business presentation creation and unrestricted content retrieval for over 80,000 users
- Modernized core APIs to AWS hosting, including the refactoring of Apache Solr-powered search to AWS OpenSearch full-text querying — increasing scalability and allowing for retirement of global physical servers
- Spearheaded the design and development of an Agentic LLM Assistant for presentation creation, fit with Q&A support capabilities as well as integrations with internal knowlege bases, content library APIs, and internal financial applications
- 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 - December 2024*
- Created Singularity container to run the DISCA deep learning pipeline end-to-end and furthermore trained CMU collaborators from multiple universities on the usage of said container, reducing setup time by nearly 80%
- Developed classification model for false positive particle filtering, reducing noise in particle data and improving downstrain DISCA clustering

Capital One   *McLean, VA*
Software Engineering Intern   *June 2023 - August 2023*
- Engineered and deployed Universal Deep Link servicing across web, email, and mobile application channels — powering seamless integration for partners like Walmart, Google Autofill, and Zelle — driving increased traffic to the EASE mobile application while reducing navigation time by up to 75% for ∼38 million existing EASE users
- Deployed a PostgreSQL database on Amazon Aurora, eliminating the use of a middleman service and reducing expenses by 19%

The University of Texas Rio Grande Valley   *Edinburg, TX*
Undergraduate Research Assistant   *August 2022 - May 2023*
- Discovered novel applications of Transfer Learning architectures to predict the progression of Alzheimer's in patients by way of 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

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
- Collaborated with a Google NLP researcher to explore best practices in academic Machine Learning research, directly informing the development of Undergraduate thesis on image style transferral

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 & Web: Python, Flask, Django, FastAPI, Streamlit, C/C++, C#, .NET, JavaScript/TypeScript, React, Webpack, R, Java, Spring Boot, Apache Maven, SQL, HTML/CSS

CI/CD: Git, Terraform, AWS, Docker, Apache Jmeter, Jenkins, SonarQube, Spinnaker

Machine Learning & Data TensorFlow, Keras, PyTorch, Scikit-learn, SciPy, Pandas, NumPy, Matplotlib, LangChain, LangGraph, SQLite, MySQL, PostreSQL, MongoDB, OpenSearch/ElasticSearch