Kolade Alabi

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Summary

Current Master's student at University of Maryland, College Park with 2+ years experience as a Software Engineer at JPMorgan Chase. Expertise with backend development in .NET, and deployment of services to AWS ECS. Machine Learning enthusiast with research experience in Applied ML, looking to gain more professional experience in the field.

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

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

Experience

University of Maryland, College Park — *College Park, MD*

Teaching Assistant — *September 2025 - Present*

- Facilitating communication between professor and students, and assisting with management of Game Programming course
- Tutoring students individually to improve understanding of course topics
- Coordinating with group of 3 other Teachers Assistants, delegating grading workload and preparing organization tools for the class

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 course concept reviews, resulting in 89% retention of students from the original course