

Kolade Alabi

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Summary

ML Engineer & Master's student at University of Maryland, College Park with 2+ years experience shipping production-grade ML features and resilient backend systems at JPMorgan Chase. Expertise in LLM integration, classical ML pipelines, and scalable AWS deployment.

Education

University of Maryland, College Park

College Park, MD

Master of Science in Computer Science

Expected May 2027

- Key Coursework: Uncertainty Communication for Decision-Making, Theory of Robust Machine Learning, Systems for Machine Learning, Interactive Technologies in Human-Computer Interaction, Advanced Computer Graphics

Skills

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

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

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 Unity-based Game Programming course
- Tutoring students individually to improve understanding of course topics

JPMorgan Chase

Houston, TX

Software Engineer

August 2023 - August 2025

- Spearheaded the design and development of an Agentic LLM Assistant for presentation creation, fit with Q&A support capabilities as well as integrations with newly created VectorDB internal knowledge base for Retrieval Augmented Generation (RAG), content library APIs, and internal financial applications
- Developed the core platform for the AI Assistant, 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
- 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 (Part Time)

July 2023 - December 2024

- Designed k-d tree-based false positive particle filtering system, reducing noise in particle data by more than 40% to improve downstream clustering
- Created Singularity container to run the Deep Iterative Subtomogram Clustering Approach (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%

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%

Activities

Stanford University

TreeHacks Mentor

February 2025

- Engaged with 10+ teams during TreeHacks 2025 hackathon, eliminating roadblocks and encouraging project development through conversations and brainstorming with students

Google

Computer Science Research Mentorship Program

February 2023 - May 2023

- Invited to present research findings on novel applications of Transfer Learning architectures to predict the progression of Alzheimer's in patients by way of blood samples to CSRMP participants
- 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