

OLUWALADEMI LADEMI AROMOLARAN

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OBJECTIVE

Driven Computer Science candidate with proven success in software engineering, applied AI/ML, and full-stack development through impactful internships and research. Experienced in building scalable applications, training machine learning models, and deploying cloud-integrated solutions that improve performance and reliability. Recognized for strong problem-solving, collaboration, and leadership across academic, professional, and community settings. Committed to leveraging technical expertise and innovation to contribute to high-impact engineering teams at leading tech organizations.

EDUCATION

Bachelor of Science: Computer Science Baylor University	Expected in 05/2027 Waco, TX
<ul style="list-style-type: none">Honors & Awards: Dean's Academic Honor's List (Fall 2023), Baylor Distinction Award, Baylor Association of Computing Machinery Endowed Academic ScholarshipRelevant Coursework: Data Structures, Discrete Structures, Intro to Computer Systems, Calculus I–III, Linear AlgebraActivities: National Society of Black Engineers (NSBE), ACM – Association for Computing Machinery, Alpha Lambda Delta Honor Society, ColorStack, CodePath	

CORE COMPETENCIES

<ul style="list-style-type: none">Data Science & ML ToolsDev Tools & FrameworksCloud & AI InfrastructureAlgorithms & Data StructuresPerformance Optimization & Scalability	<ul style="list-style-type: none">Team CollaborationMachine Learning & ModelingWeb & Full-Stack DevelopmentProblem Solving & Analytical ThinkingProgramming Languages & Foundations
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EXPERIENCE

Software Development Intern PAYCOM	05/2025 - 08/2025 Irving, TX
<ul style="list-style-type: none">Collaborated with cross-functional engineering teams to integrate the ML pipeline into existing systems, ensuring seamless functionality, reliability, and maintainability across backend services and user-facing applications.Optimized ML training processes by refining sampling strategies and integrating robust evaluation metrics, improving model scalability and retrieval performance for real-world deployment within Paycom's production environment.Engineered data preprocessing workflows with Scikit-learn and Pandas, including categorical encoding, numerical normalization, and triplet generation, which enhanced the efficiency and accuracy of contrastive learning models.Designed and implemented an end-to-end machine learning pipeline for a full-stack application, leveraging Pandas for data ingestion/cleaning, PyTorch for training dual-encoder similarity models, and FAISS to enable rapid embedding retrieval during inference.	
Software Engineer - AI Consultant OUTLIER	05/2024 - 05/2025
<ul style="list-style-type: none">Conducted detailed evaluation and quality assurance of AI-generated content, including rating, rewriting, and refinement tasks, to systematically improve reliability and reduce model bias.Partnered with industry professionals and research collaborators to explore cutting-edge AI applications, driving advancements in model innovation and best practices for responsible deployment.Designed and optimized core algorithms for performance and scalability, implementing efficient data handling and model execution strategies that ensured robustness under production-level workloads.Trained and fine-tuned advanced AI/LLM models to improve response accuracy, clarity, and contextual alignment, directly contributing to the development of more reliable and human-like conversational systems.	
Software Engineering Fellow HEADSTARTER AI	07/2024 - 09/2024
<ul style="list-style-type: none">Applied strong web development skills in ReactJS, NextJS, and Firebase, constructing modular, reusable components that enhanced development efficiency and improved long-term system maintainability.Built and deployed production-ready applications by integrating OpenAI models, NextJS frameworks, and AWS cloud services, ensuring high performance, scalability, and seamless end-to-end functionality.Collaborated with cross-functional teams of engineers and product mentors, practicing agile development workflows and strengthening communication, problem-solving, and team-based project execution skills.Led the design and development of 5+ AI-powered applications and APIs, delivering innovative technical solutions that addressed real-world challenges and showcased expertise in both backend and frontend engineering.	

RESEARCH AND PROGRAMS

Undergraduate Research Assistant — Artificial Intelligence Lab Baylor University	08/2025 – Current
<ul style="list-style-type: none">Conducting data analysis and experimentation to refine algorithms, improve accuracy, and validate approaches aligned with responsible AI practices.Implementing and testing models using Python, PyTorch, and Scikit-learn, supporting workflows in model training, data preprocessing, and performance evaluation.Assisting with cutting-edge AI research under faculty and graduate supervision, contributing to projects exploring applications of machine learning in real-world problems	
AI4ALL Ignite Program Accelerator — Accepted Participant	Fall 2025 (Upcoming)
<ul style="list-style-type: none">Engaging in collaborative team projects to design scalable AI-driven solutions addressing societal and industry challenges.Selected through a highly competitive national process to join a premier accelerator focused on applied AI innovation and ethical machine learning.Will participate in intensive technical workshops and mentorship sessions led by leading AI professionals, emphasizing problem-solving and responsible development.	

LEADERSHIP & AFFILIATIONS

<ul style="list-style-type: none">ColorStack — MemberCodePath — Community MemberAlpha Lambda Delta Honor Society — Inducted Member	<ul style="list-style-type: none">Bear AI — MemberACM – Association for Computing Machinery — Active MemberNational Society of Black Engineers (NSBE) — Chapter Planning Co-Chair
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HONORS & AWARDS

<ul style="list-style-type: none">Baylor University Dean's ListBaylor University Distinction Award	<ul style="list-style-type: none">Recipient, Baylor Association of Computing Machinery Endowed Academic Scholarship
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