

Oluwaferanmi Oribamise

Software Development Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 4+ years building scalable, cloud-based solutions that drive powerful customer experiences, with a recent focus on production AI/LLM systems. Expert in React, TypeScript, Node.js, Python, and AWS cloud services. At the U.S. Department of Treasury, designed and deployed an AI-assisted platform with multi-provider LLM support, tool-calling workflows, and comprehensive safety architecture. At Amazon Web Services, delivered robust solutions serving millions of customers, reducing support tickets by 30% and increasing adoption by 25%. Passionate about building reliable systems and delivering high-impact products that improve people's lives.

WORK EXPERIENCE

U.S. Department of Treasury

Washington, DC

Software Engineer (AI Specialist)

04/2026 - Present

- Designed and deployed AI-assisted search/chat platform (SmartQuery) enabling natural-language questions about government hiring pipeline. Built with React, TypeScript, Node.js, PostgreSQL, and multi-provider LLM support (OpenAI, Anthropic, Gemini).
- Implemented comprehensive safety architecture for AI service: NL-to-SQL guards (table allowlists, SELECT-only validation, forbidden-field blocking, wildcard rejection, row limits), role-based access controls, UAC enforcement, and sensitive data protection for government hiring information.
- Developed integrated LLM-powered chat search with tool-calling workflows, deterministic fallbacks, document intelligence (resume/vacancy/qualification parsing with PDF fallback), and configurable hiring journey state machines with versioned deployments.
- Hardened data pipelines and APIs: ClickHouse refresh publishing with incremental processing, dashboard KPI trend APIs with frontend charting, candidate evidence propagation for reliable pipeline lookups, and improved text extraction performance.
- Strengthened engineering quality through Docker Compose integration stacks, automated PR checks, OpenAPI drift detection, compliance scanning, and full-stack local validation across frontend, API, AI, search, and data services.

Amazon Web Services

Arlington, VA

Software Development Engineer

01/2024 - 03/2026

- Designed and delivered full-stack solutions using TypeScript, React, Node.js, and AWS, enhancing customer experience for millions
- Built IAM APIs, increasing customer adoption by 25% and reducing support tickets by 30% with improved self-service
- Created React-based AWS Console UI components, simplifying account management workflows and improving user experience
- Authored HLD and LLD documents to ensure cross-functional alignment and smooth project execution
- Utilized AWS services for scalable infrastructure, achieving 99.9% uptime for millions of customers
- Leveraged AI tools for development, cutting bug resolution time by 30% and enhancing code quality
- Automated deployment with Docker and ECS, reducing release cycles by 60%
- Developed and maintained Java-based backend services and microservices using Spring Framework, collaborating with distributed teams to deliver scalable solutions integrated with AWS infrastructure serving millions of customer requests
- Mentored junior engineers and interns through code reviews, pair programming, and knowledge-sharing sessions, fostering technical excellence and growth
- Collaborated to translate business needs into technical solutions, boosting customer satisfaction and operational efficiency

U.S. Air Force Reserve

Joint Base McGuire, NJ

Matériel Manager

10/2021 - Present

- Manage mission-critical systems with high reliability and security requirements, maintaining 99.9% operational availability for defense operations
- Collaborate with cross-functional teams to implement data-driven solutions that improved operational efficiency by 30% and reduced costs by 25%

- Lead process improvement initiatives using analytical problem-solving and systematic approaches to optimize resource allocation and system performance

Kquika Inc

New York City, NY

Software and Business Development Engineer

03/2022 - 12/2023

- Developed full-stack applications using Python, React, Node.js, TypeScript, and open source frameworks, delivering scalable solutions that improved user satisfaction by 40% and system performance by 60%
- Collaborated with cross-functional Agile teams to design, implement, and support technical solutions across web and cloud-based platforms, shipping features 25% faster through iterative delivery
- Built and maintained backend services using Node.js and Python, integrating PostgreSQL and NoSQL databases to ensure data consistency and reliability across distributed systems
- Implemented containerized deployments using Docker on AWS EC2 infrastructure, creating automated CI/CD pipelines that improved deployment efficiency and system reliability
- Utilized SQL and data analysis to optimize application performance, identifying bottlenecks and implementing solutions that enhanced data processing efficiency by 30%
- Participated in code reviews and pair programming sessions, sharing best practices and contributing to a culture of technical excellence and continuous learning

Education

Drexel University

Philadelphia, PA, USA

Bachelor of Science in Mechanical Engineering and Mechanics 01/2020 - 06/2024

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C#, Go, HTML/CSS, SQL

Frontend & Backend: React, Node.js, Express, Spring Framework, RESTful APIs, GraphQL, Responsive Design

Databases: PostgreSQL, MongoDB, DynamoDB, Redis

Cloud & DevOps: AWS (EC2, ECS, Lambda, CloudFormation, CloudWatch, S3), Docker, Kubernetes, CI/CD Pipelines, Infrastructure as Code

Frameworks & Practices: Agile/Scrum, Microservices, Automated Testing, Git, Code Review, Technical Documentation

AI & LLM Systems: Multi-provider LLM orchestration (OpenAI, Anthropic, Gemini), agent frameworks, tool-calling workflows, MCP servers, LLM-as-judge evaluation, vector databases, semantic search, agent runtime systems

CERTIFICATIONS

AWS Certified AI Practitioner | Amazon Web Services | 08/2026