

LAWAL WUNMI

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Professional Summary

Full-stack software developer with 5+ years of experience delivering production-grade web applications using React, TypeScript, Node.js, and AWS serverless architecture. Skilled at building responsive front-end interfaces, designing RESTful APIs, and implementing cloud-native back-end services (Lambda, API Gateway, S3, DynamoDB). Experienced working with relational databases (SQL) and NoSQL solutions, implementing secure authentication and authorization, and leveraging AI tools for development productivity. Proven track record collaborating with cross-functional teams to build scalable, well-documented systems that support operational workflows and enhance user experiences.

Core Skills

- **APIs & Integration:** RESTful API design and development, API integration and consumption, microservices architecture, event-driven architecture, API documentation (Swagger/OpenAPI)
- **Backend & Cloud:** Node.js, SQL and NoSQL databases (DynamoDB), AWS serverless services (Lambda, S3, API Gateway, EventBridge, Bedrock), cloud-native application development, scalable and secure architecture design
- **Frontend & UI:** React, Redux, TypeScript, Vue 3, HTML5/CSS3, JavaScript (ES6+), responsive and mobile-first UI development, building data-driven interfaces
- **AI & Machine Learning Integration:** AWS Bedrock integration for document analysis and metadata extraction, comparative AI model evaluation (OpenAI, Claude, DeepSeek), AI-powered data enrichment workflows
- **Security & Authentication:** JWT and OAuth implementation, API security and data protection, secure authentication workflows, input validation and error handling
- **Development & Testing:** Full software development lifecycle, automated testing (Cypress, Playwright), CI/CD pipelines (GitLab, CloudFormation), version control, technical documentation, clean and maintainable code
- **Collaboration & Problem-Solving:** Cross-functional teamwork with technical and non-technical stakeholders, proactive issue diagnosis and resolution, technical documentation, independent project ownership

Professional Experience

Full Stack Developer | TC energy| July 2025 - Present

- **Built data pipelines integrating external APIs** (Swagger/OpenAPI) with AWS infrastructure (Athena, Lambda, S3), using Python and Pandas to transform and analyze emissions data for anomaly detection and operational insights.
- **Designed and implemented an AI-powered document processing system** using AWS Bedrock to analyze 160K+ documents and extract missing metadata, evaluating multiple AI models (OpenAI, Claude, DeepSeek) to optimize accuracy and selecting the most reliable solution for production deployment.
- **Implemented data scraping and aggregation workflows** using Python to pull emissions data from external APIs, with automated validation and error handling for quarterly data imports.

- **Built event-driven architecture** using AWS EventBridge and DynamoDB to track document processing state changes, enabling real-time updates to OpenSearch indices and ensuring data consistency across distributed services.
- **Collaborated with engineering teams** to design monitoring solutions, proactively diagnosing performance issues and ensuring high availability of production data pipelines handling large-scale operational datasets.
- **Ensured secure, efficient workflows** across distributed cloud services, implementing best practices for API security, error handling, and performance optimization.

Full Stack Developer | OFFAXE (Fintech Startup) | Jan 2019 - May 2024

- **Led full-stack development of a financial platform from concept to production**, designing and implementing RESTful APIs, authentication services, and transaction processing workflows using modern JavaScript frameworks (React, Node.js) and scalable backend architecture.
- **Built secure API integrations** for payment processing and financial data aggregation, implementing robust error handling, data validation, and security best practices to ensure compliance with financial industry standards.
- **Developed data pipelines and analytics services** that processed transaction data and generated real-time financial insights, applying database design (SQL/NoSQL) and visualization techniques to deliver clear, actionable user interfaces.
- **Built administrative backend interfaces** for transaction management, user moderation, and data export functionality (CSV/JSON), enabling non-technical staff to manage platform operations.
- **Collaborated cross-functionally with founders, designers, and stakeholders** to translate business requirements into technical solutions, conducting iterative development cycles and user testing to refine features based on real customer feedback.
- **Designed searchable, filterable interfaces** for financial data, implementing intuitive user workflows and responsive design to support diverse user needs across devices..

Education

- MSc in E-business | Swansea University
- BSc in Computer Science | University of Exeter

CONTINUING EDUCATION

- Women in Tech Full stack Development Program | Making Changes | 2024-2025