Wisdom U. Aturuobi

Experienced Backend Engineer / AWS solution architect who creates innovative, secure, and scalable cloud architectures for various domains and applications.

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Relevant Experience

Backend Engineer • **SUB4FIN LTD – London, UK**   Jun 2023 -   Present

- Led the creation of a RESTful API, handling over 1 million daily requests, boosting data retrieval efficiency by 30%.
- Set up a CI/CD pipeline, increasing deployment frequency from weekly to daily, enhancing team productivity and reliability.
- Ensure security and data protection with OAuth 2.0 and JWT.
- Review code and promote best practices in backend development.
- Work with frontend developers to define technical requirements and integrate frontend and backend systems.
- Implemented advanced monitoring tools, enabling proactive optimization, and maintaining 99.99% uptime for backend services.
- Manage Docker containerization and Kubernetes deployments for consistent development, staging, and production environments.

AWS Solutions Architect • **Freelance**   Jun 2023 -   Present

- Assessed customer requirements and provided technical guidance for the integration of AWS services into their IT infrastructure.
- Collaborated with development teams to architect and deploy highly scalable cloud-native applications on AWS.
- Optimized application performance by implementing AWS auto-scaling groups and load balancers, resulting in a 50% reduction in response time.
- Designed and implemented security measures, including AWS IAM roles and VPC configurations, ensuring data privacy and compliance.
- Assisted customers in designing serverless architectures using AWS Lambda and API Gateway..
- Implemented multi-region AWS deployments for high availability and disaster recovery purposes.
- Developed infrastructure as code using AWS CloudFormation, enabling consistent and reproducible environment provisioning.

AWS Solutions Architect • **Internship** • **SUB4FIN LTD – London, UK**   Jan 2023 -   Jun 2023

- Collaborated with the Solutions Architecture team to design and implement scalable, highly available, and fault-tolerant systems on AWS.
- Assisted in the migration of multi-tier applications and services to the AWS cloud, ensuring minimal downtime and optimal resource utilization.
- Participated in deep-dive discussions and brainstorming sessions to understand client requirements and translate them into architectural blueprints.
- Gained hands-on experience with AWS services such as EC2, S3, RDS, VPC, Serverless Architecture, Machine Learning, IAM, CloudWatch, ALB, Lambda, and CloudFormation, contributing to the development of robust cloud solutions.
- Supported the optimization of AWS resource usage, resulting in a 20% cost reduction for ongoing projects through effective cost-management strategies.
- Provided technical documentation and diagrams to support architectural decisions, ensuring clarity and alignment with best practices.

Full Stack Developer • **EbookingNg – Port Harcourt, NG**   Feb 2018 - Nov 2022

- Collaborated with UI/UX designers to create an intuitive front-end using HTML, CSS, and JavaScript.
- Developed RESTful APIs using PHP and MySQL for efficient data retrieval and manipulation.
- Implemented search functionality, allowing users to filter hotels based on location, amenities, and pricing.

Skills

Programming Languages
JavaScript (ES2015+), Typescript, HTML, CSS, Sass, PHP, Python.

Libraries & Frameworks
React, Next.js, Expressjs, Node.js, Bootstrap, React-Redux, Tailwind CSS, Styled Components.

Tools & Platforms
VS Code, Git, GitHub, MongoDB, Netlify, Vercel, WordPress, Firebase, Docker, Figma, AWS services - EC2, S3, RDS, CI/CD, EBS, KMS, CloudFront, SNS, SQS, Guard Duty, Marcie, VPC, Serverless Architecture, Machine Learning, IAM, API Gateway, CloudWatch, ALB, Lambda, CloudFormation and lots more.

Additional Skills:
Networking, Linux administration, Windows server, DHCP, DNS, bash scripting, information security and more.

Certification:
AWS Cloud Solutions Architect - Associate.

Selected Projects

E-commerce Application (Backend)
This application leverages micro-services architecture, RPC queues, and message queues to ensure reliability and fault tolerance. Docker is used for containerization, with AWS EKS managing the containers. The application is deployed to AWS through CI/CD pipelines using GitHub Actions. This project explores various technologies to build a high-performance, scalable, and robust application.

Spotify Web Music Player
This is a Spotify web player App built with Reactjs, React Context API for state management, Spotify API and Pure CSS. Here users can login to their spotify account through spotify Web API and enjoy all songs from their spotify playlist.

- Ensured responsive design for optimal user experience across devices.
- Conducted load testing to validate system performance during peak booking seasons.
- Designed the back-end using PHP and MySQL, ensuring data integrity and security.
- Created an admin dashboard for hotel managers to manage bookings, room availability, and pricing.
- Implemented secure user authentication and authorization.
- Developed automated email notifications for booking confirmations and reminders.
- Designed the database schema to store user reviews and ratings.
- Calculated average ratings and displayed them alongside hotel listings

Full Stack Developer • **Madutech – Lagos, NG** Jun 2015 - Jan 2022

E-commerce Platform:
- Designed and implemented a responsive front-end using React and Redux.
- Developed RESTful APIs with Express.js and Node.js, ensuring seamless communication between front-end and back-end.
- Implemented user authentication using JWT tokens.

Real-Time Chat Application:
- Designed the architecture using Socket.io for real-time communication.
- Created a dynamic front-end with React and Material-UI.
- Implemented user authentication with OAuth2.0 using Passport.js.
- Set up a Node.js server to handle socket connections.

Analytics Dashboard:
- Built the front-end using React and Chart.js.
- Designed RESTful APIs with Express.js.
- Collaborated with data scientists to integrate predictive models.
- Deployed the dashboard on AWS EC2.

The NASA Mission Control App

is a web application for monitoring NASA's space launches. It features a mission control dashboard for scheduling missions, exploring historical data via the SpaceX API, and finding information on upcoming launches. The backend uses Node.js, Express.js, TypeScript, MongoDB, and Jest for API testing. Docker, AWS CI/CD pipeline, and AWS Elastic Beanstalk are utilized for deployment, ensuring a strong and scalable solution. **For practice purposes only.**

Hotel Booking App

This hotel listing and booking app, built with the MERN stack, features secure user authentication, efficient hotel management, image uploads, search, sort, and filter functionalities, Stripe integration for payments, booking management, and a dynamic home page with recent hotels. It ensures a seamless experience for users and administrators.

Amazon E-commerce Replica

Built a replica of Amazon e-commerce which has add to cart, user auth, checkout and payment integration functionality.

Cryptocurrency Trading Platform

A cryptocurrency trading platform allowing users invest using various crypto assets. User and admin dashboard functionality.

Soft Skills

- Proficiency in AWS services and cloud infrastructure.
- Familiarity with architectural design patterns.
- Knowledge of IAM, data encryption, and network security.
- Understanding of compliance standards.
- Ability to balance performance and cost efficiency.
- Clear communication with stakeholders.
- Collaboration with clients and team members.
- Holistic view of systems and component interactions.

Education

National Open University, NG

Bachelor of Science in Computer Science.

Interests

When I'm not coding or doing techy stuffs, I enjoy watching movies with my wife, playing games, having a walk in the park, listening to good music and playing football.