Ruth Alao

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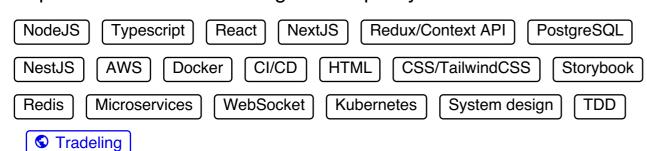
Experienced software engineer with 6+ years of hands-on experience in crafting scalable, high-performance web applications. Skilled in JavaScript, ReactJS, NodeJS, TypeScript, SQL, and NoSQL databases. Expertise in architecting reusable modules, automating builds, and optimizing front-end performance. Proficient in RESTful APIs, CI/CD, Docker, Kubernetes, Microservices, Task/messaging queues, and API integrations. Strong background in authentication, tested JavaScript, HTML5, CSS, and state management tools. Thrives on creating distributed systems, pioneering new tech, and streamlining tasks. Recognized for project management, technical leadership, and mentorship.

Relevant Experience

Senior Fullstack Engineer
Sept 2020 - Present
Tradeling

- Tradeling is the leading B2B E-commerce Marketplace in the MENA region with approximately 10k daily users.
- Accomplished the design and implementation of a highly scalable, maintainable, and performant back-office application architecture and code that provided data and functionality to support Tradeling customers, manage orders, review and approve products, set up campaigns, create promotions, configure tags, manage commissions per user, generate invoices, and perform back-office user management, as measured by it's successful use in enhancing operational efficiency and customer satisfaction.
- Developed frontend web components such as banners, carousels, and cards. Improved the performance of the frontend application by optimizing the database design, reducing API response time, and minimizing server load. This led to a substantial enhancement in page load speed and user experience. Implemented analytics and impressions tracking for all banners to collect accurate user interaction data and help guide optimization strategies.
- Successfully executed migrations from non-relational MongoDB to relational PostgreSQL database, ensured the seamless transfer of data and maintenance of data integrity.
- Led the implementation of Headless CMS, Strapi, as a key tool for the business and marketing team, providing a more user-friendly interface that facilitates the creation and deployment of web pages in a faster and more efficient manner.
- Managed AWS services including EC2, S3, CloudFront, and other cloud services to effectively host, scale and maintain the application, ensuring a highly available and reliable platform.
- Established automated testing and deployment processes, resulting in increased efficiency, faster turnaround times, and improved overall software quality.
- Provided guidance and mentorship to junior developers during onboarding, fostering a collaborative and supportive team environment while ensuring successful integration and professional growth for new team members.
- Conducted thorough code reviews for fellow developers, offering constructive feedback and guidance to promote adherence to best practices and maintain high code quality standards.

`NodeJS` `Typescript` `React` `NextJS` `Redux/Context API` `PostgreSQL` `NestJS` `AWS` `Docker` `CI/CD` `HTML` `CSS/TailwindCSS` `Storybook` `Redis` `Microservices` `WebSocket` `Kubernetes` `System design` `TDD` ⟳ Tradeling

Software Developer
Dec 2018
IBM (contractor)

- TAMM Project In Abu Dhabi is an impactful project aiming to revolutionise how citizens of Abu Dhabi interact with government services.
- Worked closely with teams from different departments to ensure timely delivery of software products that meet quality standards.
- Developed robust business calculators for prospective investors, integrating multiple APIs to provide accurate estimate calculations.
- Incorporated third-party tools and middleware, as well as internally developed applications for web browsers and mobile devices by building responsive web application UIs to enhance user experience and increase accessibility.
- Created an optimized frontend visualization of investment data by using charts, graphs, and interactive maps, giving users multiple options to view data based on their preferences and enabling them to make informed business decisions.
- Improved the frontend application's performance by optimizing database design, reducing API response time, and minimizing server load.
- Implemented testing processes, designed strategies, wrote test cases and incorporated automated tests into CI/CD pipeline to ensure the efficiency, fault tolerance, reliability, and high availability of the system, and to facilitate easy collaboration among team members.
- Created comprehensive documentation for project components, including technical specifications, user manuals, and API references, to ensure clear understanding and ease of use for both technical and non-technical audiences.
- Implemented robust security measures to safeguard sensitive data and ensure the privacy of users.
- Resolved major and minor bugs in the codebase to enhance user satisfaction, improve application performance, and mitigate potential vulnerabilities.
- Collaborate with team members in code reviews and pair programming, addressing concerns related to robustness, maintainability, development speed, performance, security, and architecture to improve the quality of the codebase.

`NodeJS` `Typescript` `React` `GraphQL` `PostgreSQL` `MongoDB` `SCSS` `TDD` `Jest` `Agile` `Serverless` `Distributed Systems` `Esri Maps` ⟳ tamm.abudhabi

Software Developer
Aug 2017
Andela Nigeria

- Andela is an organisation that cultivates IT talent in Africa and provides leading global technology companies with access to a high-skilled resource pool.
- Created an online publishing platform that enables users to publish, share, and manage their articles with ease.
- Collaborated effectively with remote teams located across various time zones to ensure seamless communication, efficient workflow, and timely project completion.
- Developed a messaging web application to facilitate communication and collaboration among teams. The application features complex functionalities and is optimized for performance and scalability.
- Made significant contributions to the open-source project Reaction Commerce, including fixing bugs, and improving documentation.
- Took part in Andela coding boot camp and multiple hackathons to sharpen coding skills and gain hands-on experience in developing innovative solutions.
- Contributed to the development of Cards For Humanity, an online version of the popular card game, Cards Against Humanity.

`NodeJS` `React` `Redux` `SCSS` `TDD` `Javascript ES6` `MongoDB` `PostgreSQL` `Webpack` `CircleCI` `Heroku` ⟳ andela.com

Systems Engineer (Electronic Payment Solutions)
Jan 2016
Interswitch Nigeria

- Interswitch is an Africa-focused integrated digital payments facilitating the electronic circulation of money between individuals and organizations on a timely and consistent basis.
- Spearheaded continuous delivery and deployment of payments across multiple sites, serving approximately 13 million customers.
- Led full FEP Deployment, Upgrades, Maintenance & Support of core banking systems like Postilion, Postcard, Postilion Office.
- Managed the successful deployment of Hardware Security Modules (HSM), ensuring robust security measures.
- Played a pivotal role in channel enhancement and certification, including ATM, POS, WEB, and Mobile, ensuring compliance with industry standards such as EMV certification.
- Orchestrated seamless integration with external systems, parties, and networks, including processors and switches like MasterCard, VISA, and VERVE.
- Exhibited expertise in installing, managing, upgrading, and administering Microsoft SQL databases.

`Postilion` `FinTech` `Load balancing` `System design` `Electronic Funds Transfer` `MSSQL` ⟳ Interswitch.com

Education

Covenant University
2010 - 2014

Bachelor's Degree, Computer Science

CGPA: 4.43/5

Final year project: A Computing Platform for Metabolic Network Visualization and Topological Analysis.

Selected Personal Projects

Location Intelligence System
2023

This project is a Location Intelligence System that allows users to track and manage vehicle locations. It includes a web-based user interface for interaction and a back-end API for data storage and retrieval. The system utilizes Typescript, React for the front-end development, Node.js and Express for the back-end API, and MongoDB as the database management system. It also integrates with Google Maps Developer APIs for displaying vehicle locations on a map.

`NodeJS` `React` `Typescript` `Redux` `SCSS` `GoogleAPIs` `MongoDB` `AWS` `Heroku` `Javascript ES6` ⟳ Location Intelligence System

Github Searcher
2020

This project allows users to search through github users and repository. It includes a web-based user interface for interaction and a back-end API for data storage and retrieval. The system utilizes Typescript, React for the front-end development, Node.js and Express for the back-end API, and Redis for caching API request to Github.

`NodeJS` `React` `Typescript` `Redux` `SCSS` `Redis` `Mongoose` `GithubAPI` `Javascript ES6` ⟳ Github-sercher

Selected Awards and Certifications

Grokking Modern System Design Interview for Engineers&Managers
2023
Educative, Inc.

See certificate

Microsoft Certified Professional
2016
Microsoft License 13392204

Lean Six Sigma Yellow Belt Certification
2017
See certificate

Postilion Basic Training
2016
ACI worldwide