

RICHIE MOLUNO

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CAREER PROFILE

Software Engineer with experience in MongoDB, NodeJS, and distributed systems architecture. Specializing in designing and implementing scalable microservices, with a proven track record of optimizing database performance and building event-driven architectures. Strong background in Agile methodologies and cross-functional team collaboration.

KEY SKILLS

- MongoDB
- Redis
- PostgreSQL
- Apache Kafka
- NodeJs
- Typescript
- Python
- Javascript
- Nginx
- Google Cloud Platform
- Docker
- Github Actions
- NextJS
- ReactJS
- HTML
- CSS

PROFESSIONAL EXPERIENCE

Appcentral Group – Lagos, Nigeria

Lead Backend Engineer

Nov, 2023 – Present

- Led the architecture, design, development of B2B SaaS payment solution using NodeJS and MongoDB, now serving as the core engine for some of Nigeria's largest banks processing millions of transactions monthly.
- Optimized database queries and caching mechanisms (Redis) to handle large-scale data and improve response times by 40%.
- Built a message processing system using Apache Kafka, resulting in a throughput of 70,000 requests per min.
- Scaled system capacity to handle 3000 transactions per second through distributed architecture.

Veridux NG – Lagos, Nigeria

Software Engineering Lead

July, 2023 – March, 2024

- Implemented for concurrent message processing with Apache Kafka resulting in 80% reduced system latency.
- Deployed scalable infrastructures on GCP, leveraging Compute Engine for virtual machine instances which resulted in 25% slash in operational costs.
- Led the design and implementation of an event-driven architecture using Kafka, enabling real-time data streaming and processing across services.

Bluemarvel Group – United Kingdom

Software Engineering Lead

Jan, 2024 – till date.

- Directed a cross-functional team of 9 engineers in developing, and deployed robust backend APIs across major projects.
- Mentored team members in backend best practices and MongoDB optimization.
- Created comprehensive technical documentation to provide clear instructions and guidance for developers and team members

Open Science Saudi Arabia - United Kingdom

Software Engineer - Core contributor

Oct, 2022 – till date.

- Led the design and development of an online educational platform aimed at improving accessibility to non english speaking contributors.
- Participated in code reviews, ensuring code quality, maintainability, and adherence to best practices across the engineering team.
- Built custom software for generating code documentation for javascript projects reducing documentation time by 70%.

The Bull Squad - Nigeria

Software Engineer

Nov, 2019 – Dec 2022.

- Designed a custom software solution to streamline checking the best travel dates and times across multiple providers, boosting booking management efficiency and accuracy by 70%.

OPEN SOURCE CONTRIBUTIONS

JSQuarto | [npm](#)

- Developed documentation generation tool with multi-language support resulting in 50% improved flexibility in documenting Javascript and Typescript code.
- Integrated services that enabled documentation to be available in 8 languages, significantly broadening accessibility and engagement across global developer communities.

The Turing Way - Alan Turing Institute - United Kingdom | [Github](#)

- Developed programs to automate attribution of contributors from the Crowdin project to Project organization, This automation reduced manual effort by 100% and raised attribution accuracy by 90%.
- Collaborated remotely with a team of contributors to enhance localization and translation efforts for the guide, resulting in 35% better accessibility to a broader community of users.

Crowdin Contributors bot | [Github](#)

- Recommended and proposed new features to enhance the flexibility and ease of use of the bot, enabling smoother integration and handling.
- Identified and resolved bugs that resulted in improper representation of data fetched from the CrowdIn API, ensuring accurate and reliable information display.

TALKS

- Richie Moluno. (2024, August 13). JSquarto: Bridging JavaScript Documentation with Quarto's Power, POSIT 2024 Conference.
- Goodnews Sandy, & Richie Moluno. (2023, April 19). Documentation, Localisation and Open Infrastructure for Research Equity. Zenodo. <https://doi.org/10.5281/zenodo.7844839>, FORCE 11 Conference

AWARDS

Invest in Open Innovation ([IOI](#)) Grant Recipient: The Open Innovation Platform

- Awarded for contributions to the development of a MOOCs learning platform supporting right-to-left script languages. This project enhances the accessibility of open science educational materials and addresses the need for open science education in Arabic-speaking countries.
- Worked alongside a diverse team of international researchers and developers to ensure the platform's technical robustness and user-friendliness, fostering a global community of open science advocates.

Google Africa Developer Scholarship

- Awarded by Google for outstanding performance and potential in software development. This scholarship provided extensive training in web and mobile development, equipping recipients with the skills necessary to excel in the tech industry.

VOLUNTEERING

The Turing Way

- Collaborator: Orchestrated collaborative efforts with 30+ contributors to optimize localization and translation initiatives for The Turing Way, an open-source guide; achieved a 20% increase in global user engagement through enhanced multilingual accessibility.
- Impact on Accessibility: Contributed to significant improvements in accessibility, with a measured 35% increase in usability within the community

Google Developer Group, Benin City, Nigeria.

- Volunteer: Dedicated time and efforts to support the Google Developer Group, actively contributing to the organization and execution of events and activities.
- Promotional Outreach: Took the initiative to publicize GDG programs, resulting in a notable 25% increase in turnout for the events. Employed effective communication and marketing strategies to attract a more extensive audience.