

RICHIE MOLUNO

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EDUCATION

University of Benin, Edo state, Nigeria
Programme: Bachelor of Engineering, Mechanical Engineering.
Academic Standing: Second Class Upper (4.07/5.0).

SKILLS AND INTEREST

Frontend Development: **TypeScript, React.JS, Next.JS**, React Native
Backend Development: **Node.JS**, RESTful APIs, Microservices Architecture, Event driven Architecture
Databases: PostgreSQL, MongoDB, Redis
Cloud Infrastructure: **Google Cloud Platform (GCP)**, Docker, Github Actions
Technologies: Kafka

WORK EXPERIENCE

- Backend Engineer - [Accuvend.ng](#), VI, Lagos state. Nov, 2023 - July 2024.
 - Led the architecture, design, development and white labeling of a **enterprise-grade** payment processing **SAAS solution**, now serving as the core engine for some of **Nigeria's largest banks** processing **millions of transactions** monthly.
 - Architected a scalable, distributed architecture using Docker and Apache Kafka, which resulted in **99.99% system uptime** and improved throughput to **3000 transactions per second**.
 - Authored detailed **technical documentation** for Accuvend's distributed system, streamlining developer onboarding and ensuring consistent client deployments, which reduced integration time by 20%.
 - Evaluated and implemented backend infrastructure choices that improved the platform's scalability and performance, such as optimizing improving consumer concurrency, efficient exception handling. These optimizations led to a 50% reduction in processing latency and significantly increased the system's robustness.
 - Conducted **code reviews** and implemented software engineering best practices, increasing developer efficiency by 20%.
- Software Engineering Lead - [Veridux](#), Ikeja, Lagos state. Jul, 2023 - Mar 2024.
 - Collaborated** closely with the product design team to develop highly interactive and user-friendly interfaces for the company's flagship admin dashboard, used by over 40 company staff to manage critical business operations.
 - Developed a **React.js** and **Redux**-based admin dashboard for internal analytics, handling complex data visualizations and delivering real-time insights from over **1,000 users**.
 - Architected and deployed scalable infrastructure on **GCP**, leveraging **Compute Engine** for virtual machine instances, leading to a 20% reduction in operational costs.
 - Designed and implemented a modular architecture that allowed for seamless integration of new features, enabling rapid iteration and **reducing time-to-market** by 30%.
- Software development Lead - [Blue Marvel Group](#), United Kingdom Jan, 2024 till date.
 - Directed a **cross-functional team** of 9 engineers in developing, and deployed robust backend APIs across major projects.
 - Created comprehensive **UML diagrams** (such as class, sequence, and deployment diagrams) that guided development and ensured a clear understanding of system components and interactions.
 - Enhanced system **reliability** by implementing **automated testing**, resulting in reduced critical bugs by 80%.
 - Engineered a suite of **microservices** using Docker, boosting deployment speed by 75% and reducing server downtime by 30%, leading to improved application **scalability** and easier management.
- Backend developer - [Open Science, Saudi Arabia](#) Oct 2022 till date.
 - Coordinated the development of open source backend REST APIs, enhancing collaboration and reducing API bugs by 80% through automated testing.
 - Implemented **microservices architecture** using Docker, reducing deployment time by 60% and improving scalability.
 - Created comprehensive **technical documentation** to provide clear instructions and guidance for developers and team members
- Lead Frontend Developer - [BlkAt.io](#), Michigan, United States Jan, 2024 - March 2024.
 - Collaborated** closely with the development team to implement cutting-edge frontend features and enhancements, resulting in a 15% increase in user engagement metrics.
 - Utilized modern frontend technologies and frameworks to optimize website performance, resulting in a 30% increase in overall site responsiveness.

- Conducted frequent **code reviews** to identify and address performance bottlenecks, resulting in 20% higher server speed.
- Implemented security measures to protect infrastructure and data, resulting in zero security breaches over time.
- Utilized **containerization tools** like Docker to build **microservices**, enabling efficient deployment, scalability, and easy management of applications.
- **Automated tests** using **CI/CD** processes before deployment resulting in reduced production errors.

- Designed and built custom software to streamline checking best travel dates and times across providers, enhancing booking management efficiency and accuracy by 70%.
- Collaborated with the marketing team to develop and execute digital strategies that increased customer engagement and bookings by 50% within 6 months.

OPEN SOURCE PROJECTS / CONTRIBUTIONS

- Designed and developed a tool to **generate code documentation** reference using 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.

- Collaborated with a **diverse team of developers** to design and implement backend API functionalities. This initiative enhanced content delivery speed by 40% and reduced API response times by 50%.
- Carried out frequent **code reviews**, resulting in a 30% decrease in post-release defects and an overall improvement in code quality metrics.
- Integrated Cloud technologies like **Google Cloud Platform** for deployment decreasing latency by 50%

- Developed programs to **automate** attribution of contributors from the Crowdin project to Project organization, This automation reduced manual effort by 100% and improved 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.

- 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.
- **Collaborated** with the project team and engaged in discussions to provide valuable insights and suggestions for further enhancements.

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

- **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.

- 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 ACTIVITIES

The Turing Way | Github

February 2023 - Present

- **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

- *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.
- *Community Engagement:* Engaged with the local tech community, fostering a collaborative environment and encouraging participation in GDG events. Facilitated networking opportunities and knowledge-sharing sessions among developers, enthusiasts, and industry professionals.