RICHIE MOLUNO

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EDUCATION

University of Benin, Edo state, Nigeria   December, 2022.

Programme: Bachelor of Engineering, Mechanical Engineering.
Academic Standing: Second Class Upper (4.07/5.0).
Dissertation: Design and Installation of Capacity Limiting RFID access control system.
Relevant Courses: Engineering systems and dynamics, **Engineering Design, Engineering Mathematics (Calculus, Numeric Analysis, Computational methods and Non-linear systems, Matrices and Vectors, Linear Programming)**, Control systems and dynamics, **Computer Aided Design.**

SKILLS AND INTEREST

Programming Languages/ Technologies: **Python, Docker, Typescript, JavaScript, Google Cloud Platform, Redis,** HTML and CSS.
Frameworks/Libraries: **NodeJS, ExpressJS, MongoDB, ReactJS, PostgreSQL, Mocha and Chai.**
Developer tools: Git, GitHub.

PROJECTS

Open Innovation Lab *(in development)* | Github | API doc | Live site   December, 2022.
- Collaborated with an agile team to develop the API for the Open source project which led to 20% increase in accessibility.
- Utilized **Cloud** technologies like **Google Cloud Platform (GCP)** to host the platform decreasing latency by 50%.
- Managed **CI/CD** processes using GitHub Actions to **automate unit and integrated tests** before **deployment** resulting in the reduced production errors by 70%
- Implemented **bilingual support using external APIs**, resulting in 50% improved accessibility to Arabic speaking countries
- Conducted frequent **code reviews** to ensure code quality and adherence to best practices.

Ride-hailing API *(in development)* | Github | API doc   March, 2022.
- Developed a **REST**ful API for critical authentication processes for backend web applications, enabling secure and reliable communication between client and server.
- Implemented industry-standard security protocols, including OAuth2 and JWT, to ensure data privacy and protection.
- Utilized a modular architecture and followed best practices to achieve high code quality and maintainability.

WORK EXPERIENCE

Software Engineer *(contract)* **- Buoyant,** Ikeja, Lagos state.   May, 2022 - July 2023.
- 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.

Outreachy - Open Science community, Saudi Arabia   October 2022, - March 2023.
- **Co-ordinated open source** contributions for the development of backend API for an online educational platform improving effective collaboration among peers by 20%.
- Implemented **automated unit tests** for **test-driven development** resulting in 80% reduced cases of reported API bugs.
- Deployed and maintained backend APIs for testing using **cloud services,** resulting in 40% decreased latency.
- Created comprehensive **technical documentation** to provide clear instructions and guidance for developers and team members

OPEN SOURCE PROJECTS/CONTRIBUTIONS

The Turing Way | Github   February, 2023 - May 2023.
- Developed programs to **automate** attribution of contributors from the Crowdin project to Project organization, ensuring proper recognition and transparency for all contributors.
- Contributed to an open-source guide for reproducible data science, aimed at optimizing research practices and optimized the reproducibility of data-driven research.
- **Collaborated with a team** of contributors to enhance localization and translation efforts for the guide, resulting in 35% enhanced accessibility to a broader community of users.

MOOCs | Github
- Collaborated with a **diverse team of developers** to design and implement backend API functionalities that enabled seamless access and delivery of educational content.
- Implemented bilingual support features to ensure a user-friendly experience for both Arabic and English-speaking users.

VOLUNTEERING ACTIVITIES

- **Volunteered** for Google Developer Group, and publicized the program resulting in a 25% increase in turnout.   June, 2022.
- **Coordinated** an immunization program for over 300 children resulting in a 60% decline in reported cases.   May, 2019.

ACHIEVEMENTS AND AWARDS

- Awarded Google Africa Developer Scholarship.   June, 2022.