Jean Luc Abayo

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I am a Senior Software Engineer specializing in full-stack web and mobile development, DevOps automation, and system architecture. With over 8 years of experience, I have built and deployed scalable applications using **JavaScript /TypeScript**, **Go**, **Kotlin**, **React Native**, **GraphQL**, **PostgreSQL**, and **NoSQL**. My expertise extends to cloud infrastructure Docker, and AWS.

Currently, at **One Acre Fund**, I develop and support Mobile & USSD solutions that empower farmers across Africa, ensuring high-quality software delivery through agile methodologies, rigorous testing, and continuous process improvement. My previous roles at Codeshift, BK Techouse, HalaSystems, and Exuus Ltd involved building critical financial, supply chain management, and civilian protection technologies..

I hold a Bachelor degree from **Southern New Hampshire University**, a Full-Stack Web Development Certification from Actualize Coding Bootcamp, and an ISTQB Tester Certification. I am passionate about innovation, thrive on solving complex problems and collaborating on impactful projects.

https://www.linkedin.com/in/jean-luc-abayo/
https://github.com/abayo-luc

Skills

- **Programming**: Javascript (Typescript), Ruby, Go, Rust, Kotlin
- **Framework**: React, React Native, Ruby on Rails, NodeJs, NestJs
- **Data & DataBase**: GraphQL, PostgreSQL, MongoDB, Firebase,
- **Dev Ops**: Docker, AWS, CI/CD, GCP, Linux
- **Development and testing Tools:** Jest, RSpec, Expo, Git, GitHub, Maestro

EXPERIENCE

OneAcreFund | Senior Software Engineer

Rwanda, Kigali - May 2022 - Current
Full time - Hybrid

- Leading the end-to-end design and implementation of multi-platform software systems (Mobile App, Web App, USSD), focusing on scalability and long-term architectural goals.
- Driving the full development lifecycle in an Agile environment: task breakdown, implementation, automated/manual testing, and deployment.
- Software quality assurance by conducting thorough code reviews, and proactively identifying and implementing process improvements.
- Mentoring and developing team members, providing technical guidance and timely feedback.
- Managing project deliverables by providing accurate timelines, reporting progress, and coordinating technical aspects of the projects.

- Acting as a key point of contact for troubleshooting production issues, communicating status updates clearly and resolving problems with a sense of urgency.
- Conducting field visits ("Go to Gemba") to observe end-users, ensuring software solutions are fit-for-purpose and aligned with real-world needs.
- Addressing specific challenges within the mobile team such as:
    - High usability requirements: aimed at users with minimal computer proficiency
    - Offline-first approach: ensuring a positive user experience even with no or limited network connectivity
    - Running applications on affordable hardware without compromising performance
    - Utilising mobile technologies such as Kotlin, React-Native,Firebase, Google Cloud Console, Sentry, Detox
    - Employing tooling landscape based on GitHub, JIRA, Slack, Azure DevOps for effective project management and collaboration.

Codeshift | Full-stack Developer
Germany, Berlin - Sept 2019 - May 2022
Freelance - Remote

- Direct collaboration with Codeshift clients to ensure effective communication and understanding of requirements
- Contribution of expert software engineering skills in the development process, enhancing product quality and efficiency
- Involvement in every stage of the software lifecycle, ensuring a comprehensive approach to product development
- Successful deployment of products, demonstrating a high level of technical proficiency and project management capabilities.

4scotty | Senior Software Engineer
Germany, Berlin - Jan 2022 - May 2022
Consultancy - Remote

- Successfully engineered modern applications utilising advanced technologies such as TypeScript, Graphql, SQL Server, and MongoDB.
- Proficiently utilised Docker, Terraform, and Amazon Web Services to enhance the efficiency of building and deployment processes.
- Demonstrated expertise in deploying and integrating software developed by the team, with an emphasis on improving continuous integration practices through updates to integration/deployment scripts
- Provided leadership to a team of 4 mid-to-senior developers by offering technical support, ensuring adherence to best practices, conducting PR reviews, and facilitating pair programming sessions.

BK Teahouse | Full-stack Developer
Kigali, Rwanda - Jan 2021 - Jan 2022
Full-time - On Site

- Successfully completed numerous projects, facilitating digital payments via Telecoms: MTN and Airtel.
- Expertise in utilising MTN Mobile Money and Airtel Money for transaction purposes.
- Established successful integration with the Bank of Kigali to streamline financial operations
- Demonstrated proficiency in implementing digital payment systems across various platforms
- Leveraged technology to create efficient, secure, and user-friendly payment solutions.

Exuss Ltd | React Native Mobile Developer

Kigali, Rwanda - Jan 2020 - Dec 2020
Consultancy - Hybrid

- Contributed to the development and maintenance of SaveCollector, a mobile financial ledger application designed for saving groups, enhancing accessibility and financial management.
- Developed and managed an iOS/Android mobile application using React, React Native, Redux, and REST APIs, ensuring a smooth user experience and high performance.
- Implemented unit and end-to-end tests to improve app reliability and reduce bugs, ensuring consistent quality across releases.
- Led a team of five mobile developers, providing technical guidance, improving team collaboration, and streamlining development processes.

HalaSystems | Frontend Developer
United State - Jan 2020 - Dec 2020
Andela Client - Remote

- Contributed to the development of advanced solutions that prioritizes protection of civilians and assets in post-conflict situations. The system contributes to safety measures and it is currently deployed in conflict zones such as Syria and Yemen.
- Designed and implemented the frontend.
- Integrated blockchain technology to enhance data integrity and security while collecting and storing critical information in humanitarian efforts.
- Collaborated effectively with numerous entities under the United Nations for implementing these solutions

Andela | Associate Software Engineer
Kigali, Rwanda Jan 2019 - Dec 2020
Full-time - On Site

- Contributed to the development of Converge Companion, a cross-platform mobile app that allows users to book meeting rooms and get directions via their smartphones.
- Implemented mock-up designs using React Native, ensuring a smooth and intuitive user experience.
- Integrated RESTful and GraphQL APIs to efficiently retrieve and update data.
- Worked closely with the team to integrate Dialogflow, enhancing the chatbot's natural language processing capabilities.

Limitless | Junior Software Engineer
Kigali, Rwanda Jan - 2018- Nov 2018
Full-time - On Site

- Assisted in the technical design process, analyzing application requirements and providing input.
- Developed and documented new software features, ensuring clarity and maintainability.
- Supported conversion plans and documented areas for improvement.
- Contributed to building and deploying a React Native mobile app for iOS and Android, as well as developing three web applications.

Volunteering

SheCanCode Bootcamp | Mentor & Technical Mentor

December 2017 - Jan 2019

As a **Mentor & Technical Lead** at **SheCanCode Bootcamp**, a program in partnership with the **U.S. Embassy in Kigali**, I played a key role in empowering women in software development and enhancing their job readiness in STEM. I contributed to the **design and development of the Bootcamp curriculum**, setting learning objectives, structuring hands-on projects, and providing performance feedback to ensure participants gained practical skills. Additionally, I **led a team of three mentors**, coordinating technical sessions, mentoring participants, and ensuring a supportive learning environment.

Referees

Karoli Kolokonyi
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