Jeffrey Karau Dauda

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EDUCATION

African Leadership University(ALU) – Kigali, Rwanda   **May 2022 - June 2025**

Bachelor of Science. (Hons) in Software Engineering
Relevant Coursework: Systems and programming, DevOps and Infrastructure, Data structures and algorithms, Full Stack Development(Reactjs, Nodejs, FastAPI), Mobile Development(Dart/Flutter, swift), Introduction to Computer Science and Programming, Object-oriented programming, Mathematics for machine learning. Intro to Cyber Security

WORK EXPERIENCE

CodeOfAfrica (GmbH)

Software Engineering Intern   **August 2023 - November 2023**

- Designed and implemented scalable backend solutions utilising agile methodology, resulting in a 30% improvement in system performance and a 25% reduction in response times.
- Developed responsive and user-friendly frontend interfaces using modern web technologies (**TailwindCss**, **ReactJs**, and **Vanilla JavaScript**), leading to a 40% increase in user satisfaction scores.
- Participated in code reviews and debugging sessions with managers, driving a 20% improvement in code quality and system robustness.
- Redesigned the database schema to improve efficiency by introducing more cardinalities and optimising query patterns, resulting in a 15% reduction in database query response times. **(SQL, ERD modelling, PostgreSQL)**

ShebaPlastic Ltd

Junior Mobile Developer   **May 2023 - Sept 2023**

- Utilised the FlutterPlatformViewFactory to create a custom platform view, implemented the native Google Maps SDK in Swift, and registered the Swift platform view factory with the Flutter engine, allowing the embedded native map view to interact seamlessly with the Flutter widget tree. (**Swift, Cocopoads, Xcode, iOS**)
- Revamped UI for most of the app screens, streamlining user journeys by simplifying and decluttering the app's interface
- Improved the app's data retrieval speed and load time by optimising state management, significantly reducing user wait times and better responsiveness. (**Dart/Flutter, Provider & Riverpod frameworks**)
- Conducted comprehensive testing to pinpoint and rectify bugs, resulting in a significant 25% reduction in app crashes.

PROJECTS

- **SafeChain(2024) -** SafeChain is a health management system on the blockchain, allows you to enjoy cross-border insurance and health management powered by the internet-computer. **[Motoko, internet-computer, ReactJs, chakra-ui]**
- **FemCycle (2023)**. FemCycle harnesses the power of the GPT-3 model to provide intelligent responses and support through its AI chatbot assistant. GPT-3, one of the most advanced AI models, has been fine-tuned to address questions and concerns related to reproductive health and menstrual hygiene. **[Flutter/Dart, ExpressJs, FireBase, Python, GPT-3 model]**
- **Environment Compliance System(2023)** Designed and developed a Monitoring System to improve adherence to Rwanda's environmental safety policies. Leveraged Arduino IoT automation with JavaScript to collect, analyse, and visualise environmental data in real time. [**Express.js, React.js, Arduino cloud APIs**]

EXTRACURRICULAR ACTIVITIES

Google Developer Students Club (GDSC)   **August 2023 - Present**.
   Co-lead/Web technologies lead.

- Co-led an extracurricular initiative as GDSC co-lead for web technologies, worked with mentors, guiding and mentoring a diverse group of 200+ Computer Science and Engineering students in skill development, fostering innovation, and organising impactful tech-related events at the African Leadership University in Rwanda.
- Orchestrated dynamic tech-focused projects and initiatives as GDSC co-lead, introducing students to open source contributions and elevating the web technology landscape on campus and contributing to developing a vibrant tech community at the African Leadership University in Rwanda.

SKILLS

- Python, JavaScript, Dart/Flutter, Swift/Swift-UI, Go, Material UI, HTML & CSS, motoko,
- Git, Docker, SQL ,NodeJs, Flask, MongoDB, BashScript, Linux/Unix, Data structures and algorithms, GCP/Azure cloud, CI/CD and Deployment**s**
- Collaboration, communication, accountability,