

TUYIZERE Samuel

An experienced Software Engineer, entrepreneur, mentor, and writer adept at bridging communication between business and technical realms, passionate about learning, mentoring, and traveling across various continents with a goal to explore more African countries.

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EXPERIENCE

Software Engineering Lead, Iwacu Finance

Sept 2023 - Jan 2024

Lead the scoping, design, and development of the IwacuRemit platform.

Integrated Smile ID for KYC processing, MTN Apis, and MASTERCARD's PMS for collecting payments from cards.

Built a shared messaging service in golang that is being used to handle internal tools communications and external (SMS and emails) communication by multiple projects.

Helped build additional features and deploy for beta testing the Rwanda National Police's Queue Management System to be used by their Traffic Police department.

Freelancer, Senior Software Engineer

May 2023 - Sept 2023

For the past few months, I have been freelancing for different clients including

- **Hidmona.ch**: A platform for sending money from the EU to Africa (Somalia, Eritrea, Ethiopia)
 - Led the front-end team to redesign the customer's dashboard
 - built the frontend for issuing bank accounts
 - built the frontend for issuing debit cards and managing them in the dashboard
- **Kadoo.rw**: The first online construction materials shop in Rwanda.
 - I Built the whole front end in ReactJs and Backend in NodeJs, both in Typescript.
 - I also implemented a payment processor

SKILLS

Problem-solving, Critical Thinking, Deep Analysis, and understanding the bigger picture.

Back-end development with NodeJs (Typescript), Golang, Python, and Django framework

Front-end development with ReactJs, NextJs, Htmx, templ and Tailwind CSS

good understanding and working with REST, gRPC, and GraphQL APIs

deploying and scaling microservices, handling their communications, and securing them

Databases: Both SQL and NoSQL databases, my favorites are PostgreSQL and MongoDB

iOS & Android Mobile Apps Development using React Native

Blockchain: Overall understanding of how blockchain works, with medium knowledge of web3Js, the Ethereum project, and the Stellar project.

- **Wastezon v1:** Provides consumers, manufacturers, and recyclers with efficient tech-empowered traceability services, helping them to generate waste-value addition benefits in an environmentally friendly way.
 - Led the front-end team to design and build their mobile app with React Native
- **Optimal Maven:** An architect online boutique.
 - I Built the whole front end in ReactJs and Backend in NodeJs, both in Typescript.
- **LessFRD.com:** an online fraud-prevention API.
 - I Built the whole front end in ReactJs and Backend in NodeJs, both in Typescript.
 - I also implemented stripe for payment processing

OSS PROJECTS

[Intouch Payments Js Package](#)

[Rwandan Phone numbers validator Golang package](#)

LANGUAGES

English: Fluent

Kinyarwanda: Native

French: Conversational

Swahili: Conversational

Expensa – Chief Engineer

August 2022 – April 2023

Built the application that helped companies automate payroll for employees in africa, lead a team of 3 engineers who helped build it.

Tech used:

- NodeJs + PostgreSQL on the Backend (REST API)
- ReactJs on the front end
- React Native for mobile apps
- Figma for designs
- Stripe + Flutterwave + IntouchPayments for payments processing
- [Pindo.io](#) + africastalking for sending SMS and sparkpost for emails
- Stytych for sending OTPs
- Notion + Jira for project management
- Slack for communication
- Retool for internal dashboards
- Metabase for db-based analytics/calculations

Most of my days included writing technical documents for the features needed, review work contributed by other teammates and contributed to the codebases myself plus monitoring the performance of the apps.

Chipper Cash, Tech Lead, Platform Reliability

Engineering

June 2021 – July 2022

I worked with the CTO and Senior Engineering leadership to establish the Platform Reliability Team that was in charge of fixing bugs and improving the platform's reliability.

Worked with our EM and leadership to hire, onboard, and train 3 Engineers

on the team

As tech lead for the team, I worked on:

- Made technical decisions on how the team fixed bugs and carried out other engineering tasks
- Tracked technical debt for the whole engineering department and worked toward reducing it
- Ensured the codes being pushed met the standards via PR reviews
- Collaborated with other teams on doing reliability & security analysis before they launch new features
- documented our processes and collaborated with other teams to establish SLAs and communicate our SOPs
- Worked with the security team to review features before they are rolled out
- Worked with Engineering leadership to establish our engineering culture and company culture

Chipper Cash, Software Engineer

August 2020 - June 2021

- I worked as a backend Engineer primarily on money movement projects and compliance
- Integrated the payment provider and led the launch of our service in South Africa
- Integrated different services to Monitor PEP and different watchlists into the backend service
- Was the lead engineer on the cashback project
- Helped train a new Engineer
- Organized technical presentations to share knowledge with other Engineering teams
- I was the lead engineer on multiple features built under the marketplace team, these included cashback, data bundles purchases, airtime purchases, etc
- I also helped and coordinated a task force containing individuals from multiple engineering and support teams to work on bugs raised by users

Chipper Cash, Operations & Support Engineer

January 2020 - August 2020

- Worked with customer support to fix user bugs
- Built administration tools for the operations team
- Built tools for the customer team to carry out analysis and reconcile transactions
- Built a react app to review KYC applications
- Owned the communication channel between Engineering teams and

- Operation teams to address customers' complaints and bugs
- helped maintain code quality via PR reviews
- built multiple internal tools and dashboards used by the operations team on a daily basis

eJobu, Inc., Founder& Chief Engineer

March 2017 - December 2019

eJobu.rw was an online marketplace for professional service providers in Rwanda to connect with their clients. Our Users range from University students selling web design services, to the mechanic next door.

Worked on public relations, pitched at several international startups competition

Used Guerilla marketing strategies to get users up to +500

Prototyped our first website

Market Research and analysis for online jobs in Rwanda

African Blockchain University, Rwanda, Community Manager

August 2018 - June 2019

Afrikanus Akoseh Kofi started African Blockchain University to travel around the African continent educating College Students about blockchains, in Rwanda we hosted Weekly Meetups every Friday.

Created a community of +100 blockchain enthusiasts in Kigali

Hosted 8+ Meetups about Blockchain in Kigali

Advised Entrade.io and 4new.io(KWATT) on their Blockchain strategies

Ikanikire ltd , Founder& Chief Engineer

February 2016 - May 2017

Ikanikire.com was the first tech-only-focused blog in Rwanda when I started it. We wrote about everyday human technological problems and how to fix them yourself. I left in 2017 to focus on building eJobu

Created a content calendar for the blog

Was chief-in-editor and wrote two tech articles each day

Developed the website, and built its social media strategies

EDUCATION

The University of Kigali — *Bsc Business & Information Technology*

Sept 2017 - Aug 2018