Samuel Rutakayile

Kigali, Rwanda

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Education

Adventist University of Central Africa   *Kigali, Rwanda*
Bsc in Software Engineering   *Sept 2016 - Sept 2021*
- First Class Honors (**3.7/4.0 GPA**)
- **Relevant Courses:** Data Structures, Big Data, C++, Java, Web Technologies, Best Programming Practices

Work Experience

Irembo   *Kigali, Rwanda*
Software Engineer   *July 2021 - Present*
- Increased notification service's fault tolerance by 30% by handling failed notifications in retry mechanism which republishes messages in the failed queue using the "at least once" delivery guarantee
- Spearheaded the design & implementation of a reporting service that processes approx. 12M+ records and displays data through charts in a portal consumed by over 3,000 users. Cutting cost from an expensive monthly subscription of SaaS app
- Collaborated with DevOps team to redesign & improve deployment pipelines of the crucial web platforms, reducing average deployment time from 9 mins to 3 mins by applying setting pipelines on GitHub Actions, configuring NPM module caching on app's pipelines & replacing old packaging system
- **Skills:** Java, Spring Cloud, Apache Solr, RabbitMQ, Postgres, AngularJS, Brotli, PurgeCSS, GitHub Actions.

Awesomity Lab   *Kigali, Rwanda*
Backend Developer   *July 2019 - July 2021*
- Architected, led, and executed the design & development of the gamification module for an Ed-Tech platform, used by over 200 Rwandans
- Transitioned version releases of core agent mobile app from manual to automated releases through Over-The-Air updates automated by Gitlab CI Pipelines, reducing deployment time of mobile applications from 10mins to 2mins.
- Improved response time per request of a slow Ed-Tech platform legacy API. Applied indexing query intensive tables, re-writing slow SQL queries & Redis caching mechanism on core API endpoints, reducing avg. response time from 20secs to 2secs
- Spearheaded the design & configuration of CI/CD workflow for company's core finance module, allowing faster UAT testing & reducing the manpower required for deploying services.
- **Skills:** Java, Spring Boot, NestJS, React Native, Postgres, Redis, Gitlab CI

Adventist University of Central Africa   *Kigali, Rwanda*
Teaching Assistant   *March 2019 - August 2019*
- Facilitated in teaching relevant course-related(Web Technology, Data structures & Java) topics.
- Hosted office hours to unblock students on assignments
- Coordinated class activities & Grading students' assignments
- **Skills:** Java, C++, Spring Boot, JSP, JSF, MySQL

Skills

Programming Languages	Java, Typescript, JavaScript, SQL, Python, C++, Dart.
Frameworks / Misc.	Spring Boot, NestJS, Postgres, Redis, RabbitMQ, Apache Solr, Angular, React, React Native

Projects

TypeORM Query Builder Extended
github.com/rutaks/typeorm-query-builder-extended
- A NPM library based on TypeORM that acts as a middleman, converting HTTP query parameters to DB Queries. Allowing flexible querying to an SQL database from an API endpoint
- **Tools:** Typescript, TypeORM, Postgres.

Algo Visuals
github.com/rutaks/algo-visuals
- A web app to visually represent the flow and sequence of complex algorithms
- **Tools:** React, JavaScript

Video Compressor
github.com/rutaks/video-compressor
- A 'Handbrake' based python script that compresses large video files and formats the videos into .mp4 format.
- **Tools:** Python

Achievements & Awards

2021	**First Class Honorary Award**, AUCA	*Rwanda*
2018	**2nd Runner Up**, Cyberstars CTF, 2019 Rwanda Edition	*Rwanda*
2018	**Mastery Award**, IBM Security Intelligence Engineer	*Rwanda*
2017	**Member**, University Cybersecurity Club	*Rwanda*