

# CLARANCE LIBERISTE NTWARI

SOFTWARE ENGINEER | TYPESCRIPT & NODE.JS



## ABOUT

RWANDA  
KIGALI

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CLARANCELIBERI

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IN/CLARANCE-LIBERISTE-NTWARI-27A484184

## PROFICIENT LANGUAGES/Frameworks

### PROFICIENT

TYPESCRIPT  
NODE.JS  
VUE.JS  
REACT.JS  
JAVA  
SPRING-BOOT  
GOLANG GIN

## DATABASE

### PROFICIENT

CLICKHOUSE  
MONGODB  
MYSQL  
POSTGRES SQL

## OTHER LANGUAGES

### WORKING

PYTHON  
GOLANG  
JAVA

## DEVOPS

### PROFICIENT

DOCKER  
ANSIBLE  
JENKINS  
GITLAB  
GCP  
AWS

## METHODOLOGIES

## SUMMARY

A software developer with over 6 years of experience developing modern web technologies solutions and has a passion for creativity, dedication, and ongoing personal growth. Has worked in small startups of 4 to large companies of 150 co-workers. Has led team of 10 in Agile methodologies and a track record of working remotely for 3 years, with a strong emphasis on team collaboration and efficient results

## EXPERIENCE

### PIVOT ACCESS, RWANDA (ONSITE)

05/2023 - 10/2023

FULL STACK ENGINEER, PROFESSIONAL INTERN

I played a big role in the development of 'Tekana', a platform designed to manage the Rwanda National Police's daily operations, including traffic fines, driving license examinations, Moto Vehicle Inspection, and license provisioning. Subsequently, as a seasoned Fullstack Engineer at Pivot Access here is what I did

- Led a team of 12 developers, emphasizing code reviews and adherence to best coding practices to maintain high code quality. Implemented a CI/CD pipeline using GitLab, pnpm, Docker, and Kubernetes, slashing the time required for linting, testing, and deploying multiple micro frontends.
- Created the Tekana Components library, crafted with Typescript, and ensured its availability on npm and storybook for widespread use by various frontend teams.
- Developed comprehensive CI/CD pipeline flow charts and frontend project documentation, simplifying the onboarding process for new team members.
- Guided the implementation of Atomic Design principles, fortifying consistency and scalability within the component library.
- Worked on User microservice written in Spring boot, enabling Authentication and Authorization with Role Based Access, and Wrote high performant SQL queries to write aggregated reports in Postgres DB
- Implemented User activity and Access Audit log on User microservice and Audit logs microservice
- Worked on Report and analytics microservice using Clickhouse DB, configured Clickhouse to sync reports from other 19 Postgres DB replicas, and then wrote high performant queries to retrieve analytics.

### BRITISH PETROLEUM (BP), UK (REMOTE)

07/2022 - 03/2023

SENIOR FULLSTACK ENGINEER

By simplifying end-to-end fleet management and offering guidance on how to decarbonize their fleet, a one-stop digital platform operating on BP's Superfleet platform assists fleet managers who want to maximize the efficiency of their fleet. This frees up time to expand their business in a Net Zero world.

- I contributed to the Notification Team (Squad) using Node.js and Postgres, ensuring that Superfleet users may improve their platform experiences by not missing any action or insight made on the platform.
- I was a part of the Audit Trail Team, whose job it was to keep a log of all the platform's users' past actions. I wrote performant SQL queries to retrieve millions of audits in Postgres.
- Created different components under the Atomic Design principle and Storybook while making the BP design system, reducing component dependency by 35%.
- Wrote Regression and Unit tests of the components in the BP design System.
- Involvement in Domains Team, managing high-level monorepo architecture with NX for efficient team development and CI/CD pipelines.

### HUNTERSOFBOOK, TURKEY (REMOTE)

04/2021 - 06/2022

SOFTWARE FULL STACK ENGINEER

Improved frontend development and user engagement at HuntersOfBook through storybook UI components and WYSIWYG editor.

## PROFICIENT

AGILE  
SCRUM  
KANBAN  
ATOMIC DESIGN  
BEM

## LANGUAGES

ENGLISH (PROFESSIONAL)  
KINYARWANDA (NATIVE)

- Created Component presentation with storybook, which improved Developer experience by 15%.
- Wrote unit test and integration test respecting TDD with Jest and testing-library
- Built end-to-end APIs using Nest.js, PostgreSQL, Prisma, and GraphQL.
- Developed a powerful WYSIWYG editor using Vue.js, an editor that made content writing smooth and faster with a 45% increase in efficiency for users.
- Wrote GitHub Action scripts for PRs, automating PR validations and automatic deployment, speeding up the normal manual process from 15mins to 55 secs.

## MINISTRY OF ICT & RWANDA CODING ACADEMY, RWANDA(REMOTE)

08/2021 - 07/2022

### SOFTWARE FULL STACK ENGINEER

Led a team and implemented features through analysis, design, mentorship, and efficient deployment using CI/CD pipeline.

- Led software analysis and design by making Software Requirement Specification (SRS), data dictionaries, DFD, and user use cases.
- Setup Gitlab Enterprise server, Jenkins, Tomcat, PM2, Docker, and Kubernetes for Java, Node.js, and Vue.js app CI/CD.
- Integrated 4 backend microservices and Frontend on Gitlab pipeline and deployment.
- Led a team of 10, Reviewed code and taught the team how to use modern software methodologies.
- Implemented different features on live streaming calls and chat with Node.js and Vue.js
- Wrote component and e2e tests using the react-testing library and Cypress.

## KURIOUS LTD, RWANDA(REMOTE)

07/2018 - 03/2021

### FRONTEND ENGINEER

Developed tools for video and textual materials for students and a real-time messaging service for communication between students and teachers, improving the platform's front-end, making the platform more competitive with Coursera and Edx.

- Developed and led software analysis and design process, resulting in the successful creation of over 20 Software Requirement Specification (SRS) documents, data dictionaries, DFD diagrams, and user use cases.
- Setup Gitlab Enterprise server, Jenkins, Tomcat, PM2, Docker, and Kubernetes for Java, Node.js, and Vue.js app CI/CD.
- Implemented DevOps workflows on Digital Ocean, speeding CI/CD process by 30%.
- Developed Chat, Live Stream, and Students Forum modules, resulting in a 50% increase in user engagement and communication, utilizing technologies such as webRTC, socket.io, Vue.js, and Kurento.

## VOLUNTEER

### FUTURE SKILLS BOOTCAMP

12/2019 - 12/2019

#### WEB DEVELOPMENT MENTOR

Taught programming concepts to 350 children under 18 during a two week program.

- Covered five skills including HTML, CSS, Javascript, PHP, and SQL.
- Guided and facilitated students in presenting final projects on demo day.
- Facilitated students in designing web pages within 7 days, helping to foster competitive programming and creative thinking skills.

## EDUCATION

### RWANDA CODING ACADEMY

ASSOCIATE'S DEGREE SOFTWARE PROGRAMMING & EMBEDDED SYSTEM

### AFRICAN LEADERSHIP UNIVERSITY

BACHELOR'S DEGREE SOFTWARE ENGINEERING