

RYAN KEVIN KARERA

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Profile

Software Engineering student with hands-on full-stack development experience building web applications with TypeScript, React and Node.js. Experienced with agile development, TDD, CI/CD, and collaborative software development.

Experience

The Gym

Nov 2024 – Nov 2025

Software Development Trainee

Kigali, Rwanda

- Developed full-stack web applications, using TypeScript, React, Node.js, NestJS, and Tailwind CSS.
- Collaborated in a team to break down requirements into tasks, implement features, and conduct code reviews.
- Used project-management and collaboration tools including GitHub, Trello, and Notion.
- Solved 600+ algorithmic programming challenges on Codewars (4 kyu).

Education

Bachelor of Software Engineering

Expected Graduation: 2027

Adventist University of Central Africa

Kigali, Rwanda

- **Relevant Courses:** Data Structures and Algorithms, Software Design Principles, Database Management Systems, Web Development, Software Testing and Quality Assurance, Computer Networks, Java Programming, .Net.
- **Web Technology Coursework:** PlanningSync GitHub
Developed a web application for event planning and daily habit tracking, built with React, Spring Boot, and PostgreSQL.

Projects

MtoM Chronology

Live Demo | Blog Post

- Built a full-stack web application that lists and establishes connections between different media based on their chronology.
- Deployed on Oracle Cloud Infrastructure (OCI) with CI/CD pipelines using GitHub Actions.
- **Technologies:** React, Node.js, Tailwind CSS, MongoDB

Tabiya Taxonomy Data Visualizer

Live Demo | Blog Post

- Developed a data visualization tool for exploring and analyzing Tabiya's opensource job taxonomy data.
- Implemented graphs to display the relationships within the dataset.
- **Technologies:** Node.js, Sigma.js

Mafuno

Live Demo | Blog Post

- Created an online real-time multiplayer card game.
- Implemented play rooms with efficient state management and real-time updates using WebSockets.
- Added AI players to allow users to play against the computer.
- **Technologies:** Node.js, WebSockets, Tailwind CSS

Technical Skills

Programming Languages: TypeScript, JavaScript, Python, Java, C

Frontend: React, Tailwind CSS

Backend: Node.js, NestJS, Spring Boot

Databases: PostgreSQL, MySQL, MongoDB, SQLite

Testing: Jest, JUnit

Cloud & DevOps: Linux, GitHub Actions, Nginx, Docker, PM2, systemd, AWS (EC2)

Developer Tools: Git, GitHub, Postman, Figma, Hoppscotch

Languages

English: Fluent, **French:** Fluent

Certifications

Networking Operations Internet Society Learning

2024

Networking Essentials Cisco Networking Academy

2024