

# John Kariuki Chege

Innovative Software Developer with demonstrated background designing, debugging and deploying software for client and server applications.

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## EXPERIENCE

### **Betnare, Nairobi — Full Stack Dev, Mobile App Dev**

October 2022 - PRESENT

#### Front End

**Betnare Website (React):** <https://betnare.com>

- Cooperate with the product team to create clean interfaces and simple, intuitive interactions and experiences for the users.

#### Mobile App

Betnare Android Java - discontinued

Betnare React Native currently active

Betnare Flutter application in progress

- In Betnare I initially started with Android development using Java.
- Then transitioned to React Native for cross-platform mobile app development.
- Currently, I am actively working on a mobile app using the Flutter framework so as to leverage Flutter's superior performance, expressive UI, and cross-platform capabilities.

#### Backend

**Flask - Betradar, Casino, Daraja:**

- Within Flask, I played a pivotal role in the implementation and enhancement of critical features, such as 'Betradar,' which involved real-time sports betting data integration, ensuring users had access to casino games
- I also worked on the 'Casino' module, where I contributed to the backend logic for various casino games, enabling a seamless gaming experience for our users.
- 'Mpesa Daraja apis integrations' was another project where I was responsible for the development of payment processing and transaction handling, ensuring secure and efficient financial transactions within the platform.

## SKILLS

- Database Management: Managing data and databases for applications.
- Cloud Architecture (AWS and GCP): Designing and managing cloud infrastructure.
- Mobile App Development: Creating apps for mobile devices (Android, React Native, Flutter).
- Web Development: Building websites using HTML, CSS, and JavaScript, with expertise in React, capacitor, ionic, Angular, and Vue.js.
- UI/UX Design: Designing user interfaces and improving user experiences.
- Cross-platform Development: Developing apps that work on multiple platforms.
- ML/AI: Using algorithms to make predictions and automate tasks.

- Withdrawals and Deposits: Leveraging my knowledge of RabbitMQ and Java, I have successfully implemented systems for processing withdrawals and deposits, ensuring the secure and efficient movement of funds while maintaining data integrity and reliability
- Java Application Development: Leveraging My proficiency in Java i played a key role in maintaining the java applications, particularly those involving betradar.
- Cooperated with team in implementing 3rd party integrations for virtual games in betnare

## Beyond Reporting, Nairobi — FrontEnd/Backend

May 2023 - PRESENT

### Front End:

Betnare Reporting :

Cooperating with business developed Betnare Reporting, focusing on generating reports related to bets and virtual sports, providing valuable insights and analytics for the platform and business.

### Backend:

Spring Boot - Betnare Reporting:

- In the Spring Boot framework, I was part of the 'Betnare Reporting' project, which aimed to provide comprehensive reporting and analytics capabilities for our platform. I played a key role in developing the backend components of this reporting system, allowing us to generate and present actionable insights to both internal stakeholders and end-users.

## Home Of Students Project (Ongoing)

June 20223- PRESENT

### Senior Project Developer

#### Project Overview:

"Home Of Students" is an ongoing project aimed at providing an integrated platform for student housing management. The system involves a robust backend developed using Spring Boot, incorporating advanced technologies such as websockets, RabbitMQ, Redis cache, Mpesa Daraja API, and PayPal integration. The frontend is developed in React.

#### Key Responsibilities and Achievements:

##### Backend Development:

Spearheaded the development of the project's backend using Spring Boot, ensuring scalability and optimal performance.

- Cybersecurity: Protecting systems and data from security threats.
- Software Development (Multiple Languages): Developing software in various programming languages.
- Application Development and System Administration (Linux): Creating software applications ,and managing Linux systems.

### LANGUAGES

- Java
- Python
- Javascript
- Dart
- c#
- Ruby
- Bash
- php/laravel

Implemented websockets for real-time communication, enhancing the user experience by providing instant updates on critical activities.

- **Integration with Third-Party APIs:**

Successfully integrated Mpesa Daraja API, enabling seamless and secure payment transactions within the platform.

Implemented PayPal integration, expanding payment options for users and enhancing the overall financial ecosystem of the application.

- **Messaging and Queue Management:**

Utilized RabbitMQ for efficient messaging and queue management, ensuring smooth communication between different components of the system.

Implemented message queues to handle asynchronous tasks, optimizing overall system responsiveness.

- **Caching Mechanism:**

Implemented Redis cache to enhance data retrieval and response times, resulting in a more responsive and performant application.

Utilized caching strategies to minimize redundant database queries and improve overall system efficiency.

## **Beyond In Toch, Nairobi — *Front End***

January 2023 - PRESENT

### **Front End**

Beyond In Toch (Tech Limited Company):

<https://beyondintochsoftware.com/>

I Cooperated with designers to create clean interfaces and simple, intuitive interactions and experiences for Beyond in Toch that primary focus on technology-related products or services.

## **Quick Sava , Nairobi — *Full Stack Dev***

July 2023- PRESENT

### **Front End:**

Quicksava Website: <https://www.quicksava.com/>

I Cooperated with designers to create clean interfaces and simple, intuitive interactions and experiences. (ongoing)

### **Backend:**

"I held the pivotal role of being responsible for the development and management of Laravel APIs on the QuickSava platform.

In this capacity, my primary duties encompassed designing, building,

and maintaining the APIs that powered the functionality of the website.

In essence, I played a critical role in shaping the technological infrastructure of QuickSava, contributing to the platform's success in delivering efficient and user-friendly loan services to its customers.

## **Icon Hub , Kisii — *Front End Dev/ Mobile App Dev***

December 2021 - May 2022

### **Mobile app:**

Iconz Errands:

At Icon Hub, i was involved in the development of a mobile application (android java) that functioned similarly to popular ride-sharing and delivery platforms like Uber..

The application provided a user-friendly platform for on-demand ride-sharing and delivery services in Kisii, enhancing convenience and accessibility for both residents and businesses.

### **Front End:**

Projects consultancy , bananaday...

<https://bananaday.co.ke/partners.html>

## **Beyond Vas, Nairobi — *Front End***

May 2023 - PRESENT

### **Frontend:**

Beyond VAS Website (React):<https://beyondvas.co>

Working with designers I played a pivotal role in the front end development for Beyond VAS' website, accessible at "https://beyondvas.co," a platform dedicated to SMS services and SMS integrations.

## **EDUCATION**

## **Kisii University, Kisii — *Degree***

September 2019 - December 2023

Bachelor of Science in Software Engineering  
Kisii University, Kisii , Kenya

### **Skill Levels:**

- Backend Development: Advanced
- Frontend Development: Proficient
- Database Management: Proficient
- Machine Learning: Proficient
- Data Analysis: Proficient
- Internet of Things (IoT): Proficient

## **Lenana School, Nairobi — Kenya certificate of secondary education B+**

December 2018

## **Menengai Hill Primary School, Nakuru — Kenya certificate of Primary education 377**

November 2014

### **PROJECTS**

#### **Project Name —**

**Betnare Betting Site:** <https://betnare.com/>

- Betnare's website offers a wide range of features including virtual sports, betslips management, bet placement, user profiles, deposits, withdrawals, and it's designed to be responsive, ensuring an excellent user experience on various devices.
- Coupled with that it has a wide range of flask, springboot , java ee and microservices that work in tandem to provide the best and feature proof functionalities for its users.
- **Tools used:** react(front end) , spring boot(backend), flask(backend) , java mts backend, rabbitmq(backend queues) , bootstrap 5(front end), redis(backend), nginx(backend) , mysql(backend), redis, cloud cdn

#### **Home Of Students (Ongoing):**

- An ongoing project related to student-oriented services , online booking, tracking and networking.

**Tools used:** react(front end) , antd (frontend), spring boot(backend), rabbitmq(backend) , flutter(mobile)

- Communication: Websockets, RabbitMQ
- Data Caching: Redis
- Payment Integration: Mpesa Daraja API, PayPal

**Beyond Vas:** <https://beyondvas.co/>

- A project focused on SMS services and integrations.

Tools used: react (front end), material ui(front end)

#### **Betnare Reporting:**

- A reporting system that offers insights and analytics on betting activities, developed by Betnare.

Tools used: vue js(front end), element plus(front end), spring

boot(backend), mysql (backend)

#### **Betnare Infrastrucure Provision with Ansible**

- A project aimed at automation of deployments of betnare infrastructure

Tools used: ansible (infrastructure provision), docker, kubernetes,

#### **QuickSava:** <https://quicksava.co.ke/>

- A project involving changes, particularly in the area of loan applications.

Tools used: react(front end), php ,laravel (backend) , rabbitmq, redis

#### **Icons Errands:**

- A mobile app development project aimed at improving user experiences for errand-related services.

Tool used: android java

#### **Betnare Flutter, Android and React Native App:**

- Mobile app development by Betnare using both Flutter and React Native, with cross-platform capabilities.

Tools used: flutter(mobile), react native(mobile), android java(mobile)

#### **Beyond Vas and Quick Sava In Progress Flutter App:**

- Ongoing development of a Flutter app for Beyond Vas and QuickSava, offering mobile apps

Tools used: flutter(mobile), android java(mobile)

#### **Betnare Reporting Spring Boot:**

- A reporting system developed by Betnare using the Spring Boot framework.

Tools used: spring boot(backend)

#### **Betnare Flask API:**

- An API developed by Betnare for specific backend services.

Tools used: flask(backend)

#### **Betnare.org Website:** <https://betnare.org/>

- The official website of Betnare, serving as a platform for their services and information.

Tools used: Html 5, Bootstrap(front end)

#### **Beyond In Toch Website:**

- A website related to Beyond In Toch, offering information or

services in their services.

Tools used: Html 5, Bootstrap(front end),

**NetpapUi(Angular)** <https://cloud.netpap.co.ke/>

- Netpap is a cloud platform to manage bandwidth,billing,users KYC,hotspots and notifications for your internet business.

I was tasked with making their ui/ux designs for a more visually appealing user friendly design.

**NetpapMobile(Angular, ionic)**

- Netpap is a cloud platform to manage bandwidth,billing,users KYC,hotspots and notifications for your internet business.

I was tasked with creating an ionic mobile app for mobile devices .

**Beyondvas(React, ionic)**

Created a react capacitor app for the web interface ,in anticipation for a quicklaunch plan.

**E-commerce Platform:(Angular)**

- An online platform that enables buying and selling of products and services over the internet.

Tools used: Angular js(frontend), Express js(backend), mysql (backend)