

James Waweru Chege

Full Stack Software Developer

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Summary

Results-driven Full Stack Software Developer and Blockchain Expert with over 10 years of experience, specializing in innovative solutions across Fintech, Health, Telecommunication, Social Media, E-Commerce, and Real Estate industries. Expertise includes Cloud Security, RBAC, Encryption, Log Analytics, Cloud Watch, IAM, and Cloud Formation, along with Full Stack Web Development and Blockchain Development. Proficient in ReactJS, Node.js, C#, ASP.NET, .NET Core, Solidity, Rust, and Laravel. Leveraging technologies such as RabbitMQ, Kafka, Redis, and GraphQL, with a strong background in SQL and NoSQL databases, and big data technologies. Skilled in Agile methodologies, test-driven development, and leading change management initiatives.

Technical Skills

- **Web Server Technologies:** Node.js, .NET Core, ASP.NET, C#, PHP (Laravel), Yii2
- **Web Client Technologies:** ReactJS, Next.js, VueJS, Angular 2
- **Databases:** MySQL, MongoDB, Neo4J, Redis, GraphQL
- **Source Control:** GitHub
- **Web Servers:** Nginx, Apache, Litespeed
- **Tools:** Docker, Jenkins, Kubernetes, CircleCI, AWS, Hardhat, IPFS
- **Cloud Technologies:** Cloud Security, RBAC, Encryption, Log Analytics, Cloud Watch, IAM, Cloud Formation

Professional Experience

Lead Full-stack Developer

TAMM Abudhabi(*Tahaluf Al Emarat Delegate*)

Jan 2023 – June 2024

- **Project Leadership:** Spearheaded the development and deployment of Abu Dhabi's TAMM service delivery portal, significantly enhancing user interaction with government services.
- **API Development:** Designed and implemented RESTful APIs using Node.js and Express, seamlessly integrating with a React JS front-end and MongoDB database to ensure efficient data handling and user experience.
- **Security Implementation:** Led the development of secure authentication and authorization mechanisms using JWT, ensuring robust security protocols and protecting sensitive user data.
- **Team Management:** Managed cross-functional teams, including front-end and back-end developers, UX/UI designers, and QA testers, to ensure project milestones were achieved, resulting in improved service accessibility and user experience.
- **Performance Optimization:** Conducted performance tuning and optimization of the portal, reducing load times by 30% and enhancing overall user satisfaction.

Technical Lead & Blockchain Developer

Metacorp Agency, Dubai

Feb 2021 – Dec 2023

- Platform Development: Oversaw the development and integration of Jamborow, a financial technology platform aimed at improving financial inclusion across Africa, impacting over 1 million users.
- Full-stack Solutions: Directed a team in building and maintaining full-stack solutions with Laravel and Node.js, ensuring robust and scalable applications capable of handling high traffic volumes.
- CI/CD Implementation: Implemented CI/CD pipelines with Jenkins and Docker, enhancing the efficiency and reliability of deployment processes, reducing deployment times by 40%.
- Stakeholder Collaboration: Collaborated with stakeholders, including product owners and business analysts, to define project requirements and deliver high-quality, secure solutions, meeting and exceeding client expectations.
- Mentorship and Training: Provided mentorship and training to junior developers, fostering a culture of continuous learning and improvement within the team.

Full Stack Developer and Technical Lead

Adanian Labs Africa

May 2018 – Jan 2021

- Digital Lending Platform: Led the technical development of Paylend Africa's digital lending platform, integrating financial management tools and ensuring regulatory compliance.
- Social Media Platform: Directed the development of Twaa, a social media platform focused on women's empowerment, incorporating real-time features such as live chat notifications, and advanced user interactions.
- User-Centric Features: Worked closely with product managers and designers to create user-centric features, enhancing overall user engagement and satisfaction, resulting in a 25% increase in active users.
- Regulatory Compliance: Ensured all developed solutions adhered to relevant regulatory standards, maintaining compliance and avoiding potential legal issues.

Technical Documentation: Authored comprehensive technical documentation and user guides, facilitating easier maintenance and onboarding of new team members.

Project Highlights

Abudhabi Government Service Delivery Portal (TAMM)(<https://www.tamm.abudhabi>)

Role: Full Stack Developer

Technologies used: Node.js, React JS, Redux, MongoDB

Project Description:

Developed a comprehensive service delivery platform aimed at enhancing the digital transformation of government services. The project focused on improving user experience, streamlining service access, and integrating various government services into a single platform.

Roles and Responsibilities:

- Led the development of RESTful APIs using Node.js and Express.
- Implemented robust client-side applications with React JS and managed state using Redux.
- Worked on authentication and authorization using JWT.
- Developed and deployed cross-platform applications using .NET Core & ASP.Net

- Contributed to database design and management using MongoDB.
- Ensured application scalability and performance optimization.
- Participated in the CI/CD pipeline setup using Jenkins and Docker for containerization.
- Coordinated with cross-functional teams to define user requirements and system design.

Paylend Africa - Fintech SME Lending platform (<https://paylend.africa>)

Role: Lead Developer / Technical Lead

Technologies used: .NET Core, JavaScript, ReactJS, Node.js, MongoDB, Express

Project Description:

Involved in the development of Paylend Africa, a cutting-edge digital platform designed to support small and medium-sized enterprises (SMEs) by providing them with accessible and manageable lending solutions. The platform also offers comprehensive financial management tools to help businesses optimize their financial operations and growth.

Roles and Responsibilities:

- Led a team of developers ensuring the project was delivered on time and according to specifications. Coordinated with cross-functional teams to align project objectives and outcomes.
- Oversaw the full-stack development process from database schema design to developing RESTful APIs and creating dynamic, responsive front-end interfaces.
- Ensured the platform's compliance with financial regulations and standards. Implemented robust security measures to protect sensitive financial data.
- Set up and maintain CI/CD pipelines using Jenkins and Docker, facilitating seamless and frequent updates to the platform without downtime.
- Played a pivotal role in integrating advanced features such as AI-driven credit scoring algorithms to assess SMEs' creditworthiness more accurately and efficiently.
- Actively engaged with stakeholders to gather requirements, report on progress, and incorporate feedback into the development process.
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Twaa Women Empowerment Social Media Platform(<https://twaa.io>)

Technologies used: ReactJS, NodeJS, Socket.io, GraphQL, Amazon S3, JITSI video, Kafka

Project Description:

Spearheaded the development of Twaa, an innovative social media platform aimed at empowering women through mentorship, community building, and access to personal and professional development resources. The platform facilitates meaningful connections among women worldwide, promoting empowerment and growth.

Roles and Responsibilities:

- Led a dynamic team of developers in creating a robust, scalable platform from the ground up.
- Ensured the platform supported real-time communication, video conferencing, and a rich set of interactive features.
- Managed the integration of various technologies for a seamless and engaging user experience.
- Oversaw the project from conception to launch, ensuring alignment with the vision of empowering women globally.

Helio Gaming (WEB, USSD Services and VAS gamins services) (<https://heliogaming.com>)

Domain: Telecommunication and Gaming

Project Type: USSD Integration for Lottery Services

Team Size: 5

Role: Full-stack Developer

Period: August 2020 - December 2020

Technologies used: .Net Core, PHP (Laravel), MySQL, Redis, integration with telecom APIs (Safaricom, Airtel)

Project Description:

Developed web applications and integrated USSD services for Helio Gaming's lottery offerings in West Africa and Kenya. This project involved creating a seamless USSD interface that allowed users to participate in lotteries, enhancing accessibility and engagement for users without internet access.

Roles and Responsibilities:

- Developed the USSD application using Laravel and integrated it with telecom providers in Kenya and West Africa.
 - Implemented secure and scalable services to handle a high volume of concurrent lottery entries.
 - Worked closely with telecom APIs to ensure seamless operation and user experience.
 - Coordinated testing and deployment, ensuring compliance with regulatory standards and telecom requirements.
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Jamborow Financial Technology Platform (<https://jamborow.co.uk>)

Organization: Metacorp Agency (Dubai)

Technologies used: Laravel, Redis, NodeJS, React JS

Project Description:

Engaged as a full-stack developer on the Jamborow Financial Technology platform aimed at fostering economic and financial inclusion across Africa's informal, unbanked, and underbanked sectors. The platform leverages white-label SaaS solutions to extend financial services accessibility.

Roles and Responsibilities:

- Contributed to frontend and backend integrations with external services, including messaging and cross-border payment solutions.
 - Played a critical role in the development and maintenance of the platform, focusing on scalability, security, and user experience.
 - Assisted in architecting and implementing efficient, secure code for various platform services.
 - Collaborated with the development team to ensure the platform's features met the highest standards of quality and performance.
 - Actively participated in troubleshooting, debugging, and upgrading the application to improve functionality and user satisfaction.
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Ecobba Fintech Solution Development (<https://www.ecobba.com>)

Domain: Fintech

Project Type: Comprehensive Financial Services Platform

Team Size: 20

Role: Software Engineer / System Architect

Technologies used: Laravel, JavaScript, ReactJS, Node.js, MongoDB, Express, Docker, AWS, Jenkins

Project Description:

Contributed to the development of Ecobba, a fintech platform designed to transform the financial landscape for businesses and consumers. The platform facilitates a range of financial transactions including payments, loans, savings, and investments with a focus on security, user-friendliness, and accessibility.

Roles and Responsibilities:

- Played a crucial role in the architectural design and development of the platform, focusing on scalability, security, and performance.
- Led the integration of third-party services and APIs, including payment gateways and financial analytics tools, to broaden the platform's capabilities.
- Collaborated with UI/UX designers to ensure a seamless and intuitive user experience across web and mobile interfaces.
- Implemented rigorous testing and quality assurance practices to maintain high reliability and compliance with financial regulations.
- Engaged in continuous learning and adaptation to emerging fintech trends and technologies, contributing to the platform's ongoing innovation and improvement.

HedgeBoard - Social Trading and Forecasting Platform (<https://acatoken.com>)

Organization: Metacorp Agencies

Role: Full Stack & Blockchain Developer

Domain: Social Trading, Blockchain, Fintech

Team Size: 200+

Technologies Used: Node.js, ReactJS, Redux, MongoDB, Express, Solidity, JWT for authentication, Docker, Jenkins for CI/CD, Git for version control, ACA token integration

Project Description:

Contributed to the development of HedgeBoard, a monetized forecasting social trading platform designed for amateur crypto traders to learn and profit from professional traders. The platform enables experienced traders to stake their trade predictions, known as blueprints, using ACA tokens. Successful predictions reward the trader, while incorrect ones result in refunds to buying traders, thereby ensuring credibility and accuracy. The project emphasized blockchain integration, user ranking systems, and the use of ACA tokens for staking and transactions.

Roles and Responsibilities:

- Led the development of smart contracts on Ethereum using Solidity to manage blueprint staking and rewards.
 - Developed RESTful APIs with Node.js and Express to handle user interactions and blueprint transactions.
 - Built and maintained client-side applications with ReactJS, ensuring smooth user experiences and managing state with Redux.
 - Integrated ACA tokens for staking and transaction processes within the platform.
 - Implemented authentication and authorization using JWT to secure user data and transactions.
 - Contributed to database design and management using MongoDB, focusing on scalability and performance.
 - Participated in the CI/CD pipeline setup with Jenkins and Docker, ensuring continuous deployment and efficient development workflows.
 - Collaborated with cross-functional teams to define system requirements, and user flows, and ensure seamless integration of blockchain components into the platform.
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PayFlares - Global Blockchain-Powered Remittance Platform (<https://payflares.com>)

Role: Full Stack & Blockchain Developer

Technologies Used: Ethereum, Solidity, Node.js, React.js, Redux, MongoDB, Express.js, Web3.js, JWT for authentication, Docker, Jenkins for CI/CD, Git for version control, SQL/NoSQL databases, Big Data.

Project Description:

PayFlares is a pioneering remittance platform designed to disrupt traditional cross-border payment systems by leveraging the Ethereum blockchain. The platform aims to eliminate high transaction fees, lengthy delays, and poor exchange rates commonly associated with conventional remittance services, offering users a secure, fast, and cost-efficient alternative. PayFlares facilitates global transactions with real-time FX rate conversion, no transaction fees making it accessible to both individuals and businesses.

Roles and Responsibilities:

- Developed smart contracts on the Ethereum blockchain using Solidity to manage and execute financial transactions securely and transparently.
- Integrated Web3.js to interact with the blockchain, ensuring seamless communication between the front end and blockchain network.
- Led the development of RESTful APIs using Node.js and Express.js, enabling smooth interaction between the frontend and backend services.
- Built and optimized client-side applications with React.js, managing state efficiently with Redux for a responsive and dynamic user experience.
- Designed and managed databases using both SQL and NoSQL technologies, optimizing for speed, scalability, and data integrity.