CALEB KIRAGU

Full Stack Blockchain Software Engineer

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SUMMARY

Accomplished technology leader and full-stack developer with over 6 years of experience specializing in .NET, HTML, TypeScript, and blockchain technologies. Adept at leading high-performing teams, defining project roadmaps, and streamlining systems within the finance and marketing industries. Combines strategic vision with technical expertise to architect robust systems, implement CI/CD pipelines, and optimize deployment processes, ensuring seamless project delivery and alignment with business goals. Demonstrates a strong background in Agile and SCRUM methodologies, successfully streamlining operations, fostering innovation, and delivering high-impact solutions, including dynamic web and native applications. Recognized for the ability to bridge technical and non-technical stakeholders, translate complex concepts into actionable strategies, drive product development and operational excellence. Passionate about leveraging technology to build adaptive, scalable systems, for tech innovation, while empowering start up businesses to thrive in dynamic markets through cutting-edge solutions.

EXPERIENCE

Chief Technical Officer

Pesa Token　　📅 08/2021 - Present　📍 Nairobi, Kenya

- Led a team of 4 engineers, developers, and product designers in defining and executing the company's blockchain infrastructure and software architecture.
- Collaborated cross-functionally to design and maintain backend blockchain APIs using TypeScript, C#, and .NET, while deploying applications to AWS, Vercel, and Azure for optimal performance.
- Developed Decentralized Applications (DApps), smart contracts, and Web3 integrations utilizing Solidity and Web3.js, implementing security best practices and ensuring seamless user experiences.
- Featured at the Africa Fintech Summit to showcase innovative blockchain solutions, highlighting the product's impact and technical excellence.
- Facilitated seamless collaboration across teams using Slack and Agile methodologies, driving efficient project delivery.

Backend Lead

PesaFlex　　📅 06/2022 - 09/2024　📍 Nairobi, Kenya

- Engineered scalable and secure payment processing systems, reducing transaction failures by 30% and enhancing user trust.
- Developed and optimized RESTful APIs, improving payment processing speed by 40%, ensuring seamless integrations with third-party financial institutions.
- Implemented fraud detection algorithms, mitigating 95% of high-risk transactions and strengthening platform security.
- Optimized database queries and indexing strategies, reducing payment reconciliation time by 50%.
- Integrated multi-currency and cross-border payment capabilities, expanding market reach and enabling global transactions.
- Automated transaction logging and error monitoring, cutting down debugging time by 60% and boosting system reliability.

Software Engineer

SNN Marketing Agency,　　📅 01/2022 - 12/2023　📍 Nairobi, Kenya

- Developed the official SNN Marketing Agency website using React, React Native, and TypeScript, improving brand visibility and customer engagement.
- Built scalable backend microservices using Node.js with TypeScript and ASP.NET, ensuring seamless data processing and system efficiency.
- Integrated AI-powered analytics with TensorFlow, enabling automated customer segmentation and increasing ad targeting accuracy by 30%.
- Implemented smooth, interactive animations with Framer Motion and MaterialUI, enhancing user experience and reducing bounce rates.
- Optimized website performance, reducing load times by 40%, leading to increased client engagement and improved SEO rankings.

Software Engineer

Anzil Software Solutions　　📅 01/2022 - 12/2023　📍 Nairobi, Kenya

- Developed a robust REST API using ASP.NET for customer invoice management, streamlining payment processing and improving cash flow efficiency.
- Integrated local payment methods, enhancing accessibility and boosting transaction conversion rates.
- Implemented a caching mechanism with Redis and ElastiCache, reducing API response times and improving system scalability.

EDUCATION

Bachelor of Science - Computer Science

Kenyatta University

📅 2019 - 2025

STRENGTHS

💎 **Technical Vision**
Designed and architected a scalable REST API with ASP.NET, incorporating Redis and ElastiCache for optimized caching, reducing response times and ensuring system efficiency.

💎 **Product Development**
Developed a seamless customer invoice management system, integrating local payment methods to enhance user convenience and drive conversion growth.

💎 **Communication**
Collaborated with product managers, designers, and stakeholders, translating complex technical concepts into actionable insights.

💎 **Leadership**
Mentored junior developers, fostering best coding practices and conducting knowledge-sharing sessions, improving team efficiency and code quality.

💎 **Strategic Thinking**
Identified key bottlenecks in the payment flow, implementing AI-driven fraud detection and caching solutions that increased transaction speed and security.

SKILLS

Backend Development	HTML	TypeScript
Azure	AWS	Frontend Development
DevOps Practices	Full-Stack Development	
System Design	Cloud Services	
CI/CD Pipeline Implementation	Deployment	
Troubleshooting	Problem-Solving	

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LANGUAGES

English	Native	●●●●●
Swahili	Native	●●●●●