

Kabui Charles

Code - Data - People | Software Engineering | Data Science | ML/AI | [ToKnow.ai](#) | [Oark Library](#) | [mckabue.com](#)

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Profile

Versatile full-stack software engineer with a good track record in android development, frontend engineering, backend development, and startup leadership. Currently contributing to enterprise-level solutions at Microsoft. Expertise in developing scalable, secure, and high-performance software solutions. Founder of Oark Library, a thriving digital educational platform. Committed to continuous learning and innovation in software development, data science, and machine learning.

Work Experience

Full-stack Software Engineer, [Microsoft](#) *Apr 2021 - Present*

- Develop and maintain enterprise components and services used across multiple teams
- Contribute to Microsoft's mission of empowering global organizations

Technologies: ASP.NET MVC, C#, JavaScript, ReactJS, KustoQL

Android Software Engineer, [Hava Cab](#) *Oct 2020 - Apr 2021*

- Spearheaded improvements to the driver app, resolving critical bugs and enhancing location accuracy
- Optimized trip cost calculations, significantly reducing under and over-calculations
- Supported development of the rider app and server-side components

Technologies: Android, Java, Kotlin, JavaScript, ReactJS

Full-stack Software Engineer, [Maramoja Transport](#) *May 2018 - Nov 2020*

- Led development of a corporate marker-checker for client taxi apps (Android and web)
- Maintained NodeJS services powering taxi applications
- Oversaw maintenance of ReactJS taxi web app and Android client/driver apps

Technologies: JavaScript, ReactJS, NodeJS, Android, Java, MySQL

Full-stack Software Engineer, [Pageone](#) *Mar 2016 - Apr 2018*

- Led development of [Daktari.net](#), a comprehensive health portal for patient-doctor connections
- Implemented microservices using Azure Webjobs and Azure Functions
- Integrated multiple payment gateways including MPESA API, Stripe, and PayPal

Technologies: ASP.NET MVC CORE, C#, JavaScript, KnockoutJS, Azure

Freelance Software Engineer *Jan 2015 - May 2016*

- Developed custom software solutions for various clients, including an insurance report generator
- Created WordPress websites and web templates for businesses

Technologies: C#, WPF, Windows Forms, JavaScript, WordPress, PHP

Key Projects

ToKnow.ai *May 2024*

Created a platform to publish data driven analysis and research around artificial intelligence, data science, cyber security, money and other general tech ideas, [Website](#)

Oark Library (Founder) *Closed Dec 2024*

- Built and scaled a digital educational platform serving 50,000+ users with 400,000+ academic resources
- Engineered robust security measures to protect against frequent hack attempts and data breaches
- Developed both web and mobile applications, achieving peak growth of 1,500 new signups per day

Impact: Successfully operated for more than 7 years; became a trusted educational resource hub in Kenya; archived at [Wayback Machine](#). [Website](#)

Technical Proficiencies

- Languages: *JavaScript, C#, Python, Kotlin, Java*
- Frontend: *HTML5, SASS, CSS3, ReactJS, VueJS*
- Backend: *ASP.NET MVC, NodeJS, Flask*
- Databases: *MSSQL, MySQL, ElasticSearch, MongoDB, KustoQL, Azure Table*
- Cloud: *Azure, AWS*
- Mobile: *Android Development*
- Architectures: *Monolithic, Serverless, GraphQL, RestAPI*

Education

- Master of Science in Data Science and Analytics, *Strathmore University, Kenya*
- Bachelor of Science in Software Engineering, *Kisii University, Kenya*