

Kabui Charles

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

Software engineer with a decade of hands-on experience delivering scalable, secure, and user-centered systems across web, mobile, and cloud platforms. Expertise in android development, front-end engineering, back-end development, and startup leadership. Currently contributing to enterprise-level solutions at Microsoft and actively engaged in data science and AI research.

Work Experience

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

- Develop and maintain enterprise components and services used across multiple teams
- Collaborate with global teams to advance Microsoft's mission of digital empowerment

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

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

- Improved accuracy and reliability of the driver app under real-world constraints
- Refined core trip logic, minimizing cost estimation errors
- Supported backend and frontend integration across mobile and web

Technologies: Android, Java, Kotlin, JavaScript, ReactJS

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

- Architected a corporate trip audit tool (marker-checker) used by enterprise clients
- 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 healthcare portal connecting patients and doctors
- Pioneered serverless architecture with Azure Functions and WebJobs
- 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*

- Delivered bespoke tools for SMEs, including insurance report systems and web portals
- Built and deployed WordPress sites and custom themes

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

Projects & Initiatives

ToKnow.ai *May 2024 - Present*

A platform for publishing data-driven research and analysis in AI, security, finance, and technology. [Visit Site](#)

Oark Library (Founder) *2017 - 2024*

A digital education hub serving over 130,000 users with 400,000+ learning resources. [Archived Site](#)

- Engineered the platform from scratch - web, mobile, and backend
- Designed robust security against repeated cyberattacks
- Achieved peak growth of 1,500 daily signups

Technical Proficiencies

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

Education

- MSc Data Science and Analytics - *Strathmore University*
- BSc Software Engineering - *Kisii University*