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

react-validate-hook *2025 - Present*

A lightweight, flexible, and type-safe React form validation hook with zero dependencies. View on npm

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*