

# Muturi David

Software Engineer

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## EDUCATION

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**Kenyatta University**

*B Sc*

Nairobi, Kenya

## EXPERIENCE

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**Software Engineering Fellow**

*Headstarter AI*

*Track C (Virtual)*

- Developed and deployed multiple solo and team projects, including a personal website, pantry tracker, AI customer support system, and AI-powered flashcards and Stripe integration.
- Worked with technologies including HTML, CSS, ReactJS, NextJS, Firebase, OpenAI API, and AWS.
- Collaborated in teams to build scalable and efficient web applications, following agile methodologies with daily sprints and incorporated CI/CD practices for iterative deployment.

## PROJECTS

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**AI Flashcards SaaS**

Next.js, Clerk, Firebase, OpenAI, Stripe

- Built a flashcard SaaS application with authentication, payment integration, and OpenAI-powered flashcard generation.
- Implemented CRUD features with Firebase Firestore and handled subscriptions using Stripe.

**AI Customer Chat Bot**

Next.js, Shadcn UI, Next-auth, Prisma, PostgreSQL, Neon, OpenAI, TailwindCSS

- Developed an AI-powered customer support chatbot with a responsive interface, authentication, and feedback features using Next.js and the OpenAI API.
- Implemented a PostgreSQL database with Prisma and deployed using Neon for scalable data storage and retrieval.

**Rate a Mechanic RAG App**

Next.js, Shadcn UI, OpenAI, Pinecone, TailwindCSS

- Built a RAG AI assistant for rating mechanics using Next.js, with vector search capabilities provided by Pinecone and intelligent responses using OpenAI.

## HACKATHONS

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**OloScraper**

React, Node.js, Express.js, MongoDB, Puppeteer, TailwindCSS

- Developed a full-stack web scraping application that simulates browser-like interactions using a headless browser. Users can input a URL, and the application scrapes data and performs specified actions.

**Rilla Voice**

React, TypeScript, Node.js, AWS Lambda, DynamoDB, S3

- Finalist in a hackathon with a team of 5. Developed a frontend using React with TypeScript for viewing transcripts, managing comments, and displaying summaries. Implemented a backend with Node.js and AWS Lambda for handling CRUD operations and integrating with an LLM to generate summaries.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, HTML, CSS, Python, SQL

**Frontend:** React.js, Next.js, TailwindCSS, Material UI

**Backend:** Node.js, Express.js, MongoDB, PostgreSQL, Firebase

**Version Control:** Git, GitHub

**Tools:** Figma, Docker

**Concepts:** Object Oriented Programming, UI/UX Design Principles