# Muturi David

**Software Engineer**

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## EDUCATION

**Kenyatta University**                                                                                     Nairobi, Kenya
*B Sc*

## EXPERIENCE

**Software Engineering Fellow**                                                              Jul. 2024 – Present
*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

### 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

### 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

**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