

Muturi David

Software Engineer

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EDUCATION

Kenyatta University

Nairobi, Kenya

B Sc

EXPERIENCE

Software Engineering Resident

Sep. 2024 – Present

Headstarter Accelerator

- Engaged in a 14-week accelerator, focusing on AI and software engineering projects like churn prediction, real-time voice AI, and LLM-based financial automation.
- Collaborated in teams to build and deploy AI-powered applications, incorporating tools such as Vercel, Hugging Face, and OpenAI.
- Actively involved in code reviews, technical discussions, and daily sprints following agile methodologies.

Software Engineering Fellow

Jul. 2024 – Sep. 2024

Headstarter AI

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

PROJECTS

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 managed subscriptions using Stripe.

AI Customer Support 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.

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, React Native, 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