Muturi David

Software Engineer

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EDUCATION

Kenyatta University <div align="right">Nairobi, Kenya</div>
B Sc

EXPERIENCE

Software Engineering Resident <div align="right">Sep. 2024 – Present</div>
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 <div align="right">Jul. 2024 – Sep. 2024</div>
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 enter 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 front-end 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, 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