

# AMSCHEL KARIUKI

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## SUMMARY

Highly motivated software engineer with experience in full-stack web application development. Skilled in utilizing cutting-edge technologies to create innovative solutions that meet customer needs. Able to quickly learn and master new technologies and tools, and stay up to date on industry trends. Dedicated to leveraging knowledge and expertise to contribute to the success of any organization.

## Education

### Kenyatta University

- **Major:** BSC COMPUTER SCIENCE(2024:Expected to graduate)
- **COURSEWORK :** Data structures and Algorithms, Operating Systems, Databases,Networking

## Software Projects

Personal Website : <https://amschel.tech> (for additional information on projects)

### MotaAuto : Automobile Buying and Selling Platform - <https://motaauto.live>

- Developed a web application where sellers can list their cars and potential buyers can search for cars.
- Integrated Azure blob storage for storing automobile image files.
- Used Azure Cognitive Services to generate image thumbnails for load time optimization.
- Designed a REST API using Express that serves data to the application from Mongo Database.
- Used Docker to build an image for my Express API.
- Integrated The Daraja API and Paypal to receive payments through the platform.
- Integrated Mapbox API to render interactive maps for seller profiles.
- Utilized : Javascript,React,Node JS,Express JS,Microsoft Azure,Docker,Daraja API, MapBox.

### AI Powered Whatsapp Chat bot

- Utilized Open AI's text completion API and the whatsapp-web.js library to build an interactive bot that can respond intelligently to user queries.
- Incorporated MongoDB for data storage to give the bot the context of the conversation.
- Deployed the application using Docker.

### CodeTopia : An E-learning platform

- A web based application for students to learn programming in a game-like environment.
- Integrated in-platform video,audio and text communication using WEBRTC and websockets.
- Used three js for Game-like interface and overall aesthetic.
- Incorporated azure blob storage for storing files.
- Utilized: Node js, Express js, Next js,WEBRTC,Websockets,Microsoft Azure, three.js

## Achievements

Awarded 1st place at Naihack Hackathon 2022 for building a Whatsapp chatbot to enable users to make parking payments. Collaborated with other developers to design, create, and refine the chatbot, ensuring it met customer needs and provided a seamless user experience.

## Skills

Software:(*proficient*):Javascript,Node, React,Express,GIT,Docker,HTML/CSS, MONGO,SQL

(*familiar*): JAVA,C,C++,AWS