Author: Chimezie Maduno

In my creation of Spiritual Solutions, a web app that provides suggestions for integrating spirituality into any business, I decided upon using the following stacks for its backend and frontend designs, respectively:

Language → Python
Framework → FastAPI
Hosting → AWS
Others → OpenAI, AWS CDK, Docker

Language → Typescript
Framework → NextJS/React
Styling → TailwindCSS
Hosting → Vercel

Python, being a powerhouse for creating data driven and machine learning applications, was an easy choice for the development of this web app. It also has a wide range of compatible frameworks, like FastAPI, which I decided to use mainly for its asynchronous programming qualities, which are great for handling chatbot applications. AWS was heavily relied on for its hosting capabilities. Use of a lambda function allowed me to create a baselayer that essentially holds all of the dependencies/files needed for the app's functioning, which are built/contained with Docker. AWS API Gateway was then used to create an endpoint that is accessible remotely and invokes the lambda function that I created. The last AWS service used was AWS CDK, which allowed me to harness the power of infrastructure as code (IaC) to develop the app, which is helpful for various reasons, such as allowing for reusable code. It also made sense to use AWS CDK, because of my reliance on other AWS resources. As for the frontend, typescript is known to be great for developer productivity because of features like autocompletion, static typing, and its compatibility with Javascript. Typescript is also well-supported by my IDE of choice. Visual Studio Code. NextJS/React are popular JavaScript tools for creating user interfaces and, similar to AWS CDK, encourage reusability. TailwindCSS was my CSS framework of choice mainly due to its large flexibility and customizability. I used Vercel's platform simply because it was an affordable and seamless method for deploying my completed site—all it took was uploading my github repository. Finally, in my opinion, the star of the show was the OpenAI API that allowed me to prompt ChatGPT and generate business solutions that reflect what AlterCall is all about!