



## PROJECTS & EXPERIENCES

### ENACTOR DEPLOYMENT PORTAL

AWS | AZURE | REACT | JAVA + JAXRS | TERRAFORM | ANSIBLE | PYTHON

An internal product that is used to create and manage internal and customer SaaS environments. Can deploy fully functional environments on AWS and Azure with just a few clicks. Users can create environments, maintain application versions running on the environment, start and stop the cloud instances, and destroy everything at the end of their lifetime, from a single dashboard.

I was one of the key developers of the product. I have contributed to the project as a developer for one and a half years. Currently, I am leading the team that maintains the product. I am responsible for preparing technical specifications for new product features.

### TROUBLESHOOT AND RECOVER INTERNAL/CUSTOMER ENVIRONMENTS

AWS | AZURE | DOCKER

As a DevOps engineer, one of my main responsibilities was to provide support to the infrastructure team to troubleshoot and recover SaaS environments on AWS and Azure, whenever they went down. I was tasked to analyze infrastructure logs and application logs to pinpoint the errors and suggest suitable fixes to get the environment back up and running in the shortest possible time.

### WEB TABLE COLUMNS ANNOTATION USING SUPERVISED LEARNING (FINAL YEAR PROJECT)

PYTHON | TENSORFLOW | DBPEDIA

An algorithm that can assign a label for columns in a tabular data set. The label describes the kind of data in the column. We took a novel approach based on supervised learning. We published a research paper on our findings and it was accepted at IEEE 14th International Conference on Semantic Computing (ICSC) in 2020. **GitHub link:** <https://github.com/kavinduchamiran/fyp2>

### LYRICS EDITOR FOR MUSESORE (OPEN SOURCE)

QT | PHP

An easy-to-use lyrics editor for MuseScore music score-writing software with built-in spell checking, automatic hyphenation, and the ability to share lyrics in one click. As a separate project, a web app written in Laravel was delivered that is used to host, view, and search uploaded lyrics.

### HIGH SPEED REDIS CACHING FOR MONGODB DOCUMENTS (INTERNSHIP)

PYTHON | REDIS | MONGODB

MongoDB documents can be cached in Redis. This reduces the load on the primary database. Data aggregation can be performed within Redis itself without having to query MongoDB. Once a dataset is processed, the cache is automatically purged to pave the way for new data.

### MOBILE APP FOR ZEPTO WEB APPLICATION (INTERNSHIP)

REACT NATIVE | NODEJS

A native mobile application for the Zepto BI platform web application. Users can ask queries about their datasets in voice and the mobile app will transcode that into text. Then the text will be processed by an in-house NLP engine to understand the query and then the query will be processed by the backend. The results will be returned to the app and the results are spoken out to the user in natural English.

### CLOUD TORRENT DOWNLOADER (PET PROJECT)

REACT | NODEJS | KUBERNETES | GITLAB

This was a homemade alternative to the Seedr application. Torrent download jobs can be queued and the backend will download the torrents, then upload the files to a Google Drive folder and email the user a link to the folder once the download is complete. The application was dockerized and a set of YAML manifests were provided to deploy it on Kubernetes. A GitLab build pipeline was configured to build and run a suite of tests upon commits. **GitLab link:** <https://gitlab.com/kavinduchamiran/cloudl>

### ACCOMODATE ME

LARAVEL | MYSQL

A platform for boarding owners to post ads about vacant boardings and boarding finders to search for vacant boardings. Can search boardings by proximity, number of rooms, number of beds, monthly rental, and available amenities. Renters can leave feedback on ads. Site administrators have a dashboard and they manually review the feedback to filter out fake/hateful comments and approve. Captcha was used to prevent spamming. **GitHub link:** <https://github.com/kavinduchamiran/AccomodateME>

### TRAVEL MATE

REACT NATIVE | EXPO | NODEJS

A mobile app for tourists to find service providers (transportation, lodging, legal, etc) who speak the same language(s) as them. This makes communication with the service provider easier. Tourists can sign up and select languages they are fluent in. Service providers can sign up and select languages they are fluent in but for each language, they need to verify that they can speak the language by speaking out a paragraph provided by the app in that language, and then only their account is approved. Based on the tourist's location and language selection, different service providers will be shown as blimps on a map and the tourists can engage in a chat session with the service provider right on the app. **GitHub links:** [https://github.com/kavinduchamiran/TravelMate \(frontend\)](https://github.com/kavinduchamiran/TravelMate (frontend)) | [https://github.com/kavinduchamiran/MCP \(backend\)](https://github.com/kavinduchamiran/MCP (backend))

### FREELANCE PROJECTS ON FIVERR

NODEJS | PYTHON | REACT | REACT NATIVE | AWS

I have work experience as a freelance developer on Fiverr for 2 years. I have worked on many projects on a part-time basis and always delivered my orders on time. I managed to keep my ratings at 5/5 stars throughout my freelance career and was upgraded to a Level 1 seller within a short time. I had the privilege of working with clients from all around the world where I gained experience in communicating and negotiating with the clients, gathering requirements, preparing software requirement specification documents, and delivering work on time.

**Fiverr public profile:** [https://www.fiverr.com/kavindu95?public\\_mode=true](https://www.fiverr.com/kavindu95?public_mode=true)