

Vishal Singh

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|  LeetCode

WORK EXPERIENCE

Front-end Engineer - React/React native

Oct 2021 - present

AFFINSYS AI PVT LTD (Internship + Full Time)

- Integrated **React Native into existing Android projects**, enhancing functionality.
- Led development of **mobile apps from scratch** using React Native in Typescript.
- Implemented **deep linking, notification system** for user engagement.
- Utilized **RTK Query** for efficient API handling.
- Established **communication channels** between React Native and native environment.
- Designed forms, management web pages using React.
- Developed **custom npm package** for form handling.
- **Optimized code base** for maintainability, scalability.

Flutter Developer

Jan 2022 - April 2022

TREEVED (Internship)

- Debugged, managed, and created new screens and features for the app
- Learned **state management** in Flutter using **Provider and Bloc package** to effectively manage app resources
- Developed a Flutter/Dart-based **chrome extension**
- Added **Method channels** to call the native APIs on android side.
- Made API calls using the **repository pattern** with proper implementation of abstract classes

Flutter Developer

Nov 2021 - Jan 2022

CRUV. (Internship)

- Implemented **pixel-perfect UI** designs
- Utilized **isolates** to enhance app performance
- Employed **isolates for calling APIs** in separate memory threads
- Managed **heavy background tasks** such as video downloading and running complex algorithms

PROJECTS

Fall Detection

- Project based on ML/DL, which detects fall, using smart phone sensors.
- Created our own dataset using flutter app and on-board sensors of smartphone (Accelerometer, gyroscope and magnetometer)
- Pre-processed the collected data.
- Analyzed it with different machine learning and deep learning algorithms.
- Best accuracy was achieved by Random Forest classifier of 99.25
- Deployed the model on Django server.
- Integrated the server with Flutter app to predict the fall and other daily life activities (Walking, sitting, standing, running).

IoT Smart Farming

- Implemented it with using Node-MCU, flutter and firebase.
- Collected data from sensors (DHT11 and Soil moisture sensor), and stored them on RLTD of firebase
- fetched the data to our app based on flutter, also generated alerts and controlled the motor-pump using our app.

Chat Application (Flutter)

- Project based on Flutter/dart with Google authentication
- Used Firestore to store data, and user information.
- Supports text-based messages including emojis, images and multi-line text.

EDUCATION

Bachelor of Technology, (ECE)

(GPA: 9.09/10.0)

Vellore institute of technology, Vellore

HSC/Intermediate (Class 12th)

(Percent: 91.6 %)

Shah faiz public school

HSC (Class 10th)

(GPA: 9.6/10.0)

Shah faiz public school

SKILLS

Frameworks	React, React native, Flutter, Jetpack compose, Android
Programming Skills	Dart, Python, C, C++, Javascript, Typescript
Essentials	Git and GitHub/Gitlab, Postman, Swagger, Jupyter-Notebook