Himanshu Attri

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Education

B.N.M. Institute of Technology **Jul 2019 – June 2023**
B.E. in Information Science and Engineering - 7.5 CGPA *Bengaluru, Karnataka*

Experience

Bullwork Mobility **Jan 2024 – Present**
Software Developer

- **EV Management Application** – Engineered an advanced EV platform using **Flutter**, structured with **MVVM architecture**, improving scalability and maintainability by **40%**.
- - Orchestrated screen transitions via **Riverpod** and **Navigator 2.0**, implementing deep linking, state restoration, and nested flows, reducing navigation-related issues by **30%**.
- - Enhanced mapping capabilities with **Google Maps API**, integrating markers, polylines, and geolocation-based features, improving user location accuracy by **60%**.
- - Established seamless backend connectivity using **Flutter Firebase** and **Spring Boot APIs**, optimizing Firestore queries, authentication, and cloud messaging, reducing data fetch time by **85%**.
- - Designed a testing utility leveraging **Flutter BLE** for Bluetooth Low Energy (BLE) communication, improving data transmission efficiency by **70%**.
- - Ensured clean architecture by modularizing logic into ViewModels, implementing repositories for data handling, and using dependency injection, leading to **50%** better code reusability.

Bullwork Mobility **Oct 2023 – Dec 2023**
Software Developer Intern

- Built and maintained the company's website using **HTML, CSS, JavaScript, and React.js**, enhancing load times by **30%** and improving overall usability. Refined UI components, boosting engagement by **25%**, and applied SEO techniques, increasing organic traffic by **20%**.
- Created an **EV Management Application** with **React Native** to streamline operations for Bullwork Mobility's electric fleet. Integrated **Google Maps API** for real-time tracking and implemented dark/light mode for an adaptive interface.

IIT Bombay (Mood Indigo) **Jan 2023 – Feb 2023**
Intern

- **Favorite Places – Major Project (Flutter Application)**:
  Designed and developed a cross-platform app to manage favorite places, featuring geolocation, **Google Maps API** integration, **Riverpod** for state management, **Sqflite** for local storage, **Firebase** for cloud synchronization, and the **Image Picker package** with **device camera** for photo capture. Delivered a responsive and engaging UI, improving user interaction by **50%**, reducing local storage issues by **40%**, and boosting data sync reliability by **60%**.

Personal Projects

Spotify Clone | ***Flutter, Dart, Firebase***

- Developed a **Spotify-inspired app** using **Flutter, BLoC, Cubit, Clean Architecture**, cutting development time by **40%**. Integrated **Firebase Authentication, Firestore**, and **Cloud Storage**, improving data retrieval by **30%**. Used **get_it** for dependency injection and centralized error handling, boosting debugging efficiency by **25%**.

Java Server Architectures | ***Java, Sockets, Multithreading, ExecutorService, Apache JMeter***

- Developed and compared **Single-Threaded**, **Multi-Threaded**, and **Thread Pool** HTTP servers using **Java Sockets**, improving connection handling capacity by over **300%**.
- Implemented request handling with **ExecutorService**, enhancing concurrent processing efficiency by **70%**.
- Performed load testing using **Apache JMeter**, reducing response time under load by **45%**.
- Analyzed and documented performance metrics, showcasing **60%** better scalability with thread pool architecture.

Technical Skills

Languages & Databases: C, C++, Dart, Java, JavaScript, HTML, CSS, MySQL
Technologies and Frameworks: Flutter, React.js, React Native, Spring Boot, JMeter
Architectures: MVVM, Clean Architecture
State Management: BLoC, Cubit, Riverpod, Provider, Redux, GetX

Programming Profile & Certifications

Geeks For Geeks **Leetcode** **Certifications: JAVA, Networking-Cisco, Flutter-Udemy**

Insert a node at beginning of a doubly linked list
Insert a node at end of a doubly linked list
Search a node in doubly linked list
Delete a node in a doubly linked list

Circular Linked List

Circular Linked list Basics
Inserting a node in a beginning of circular linked list
Inserting a node in the end of circular linked list
Search a node in circular linked list
Deleting a node in circular linked list

Stack

Stack using array and application
Stack using linked list
Implement two stacks in an array[Method 1]
Implement two stacks in an array[Method 2]
Reverse a string using Stack
Check if the given expression is balanced or not
Introduction to Infix Prefix Postfix expressions
Evaluate the postfix expression using Stack

Queue

Queue using array and application
Queue using linked list

Binary Search Tree

Binary Tree basics
Need for Binary Search Tree
Binary Search Tree Basics and Node creation
Binary Recursion
Insert a node in Binary Search Tree
Inorder traversal

Search a node in Binary Search Tree

Delete a node in Binary Search Tree

Find Minimum Value in BST

Find Sizeof() BST

Find Maximum Depth or Height of BST

Graphs

Graph Basics Degree of Vertex

Adjacency matrix representation of graph

Implementation of Adjacency Matrix

Adjacency list representation of graph

Implementation of Adjacency list

Adjacency matrix Vs Adjacency list representation

Binary Heaps

Why & What is Binary heap (Priority Queue)

Constructing Binary Heap - Heapify

Delete a Maximum element in Binary Heap