

DHRUV KHANNA

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PROJECTS

BrainStack

Web Application for Collaborative Task Management

January 2024

- A Django-based platform enabling users to create topic-specific rooms for collaborative task management with robust features including authentication, user profile customization and interactive messaging.
- Crafted a responsive frontend using HTML, CSS, and Javascript, ensuring an intuitive and seamless user experience.
- Facilitated video conferencing via Agora SDK and Django Rest Framework, enhancing user engagement through room IDs.
- Deployed an intelligent PalmAPI-driven chatbot, enhancing user interactions, and seamlessly integrated FilePond for streamlined file sharing.
- Utilized SQLite for primary database with optimized queries for features like Searchbox, Top Hosts and Room Filters.
- Enabled secure email-based password resets using SMTP server protocols.
- Containerized the application using Docker for refined server management, achieving enhanced scalability and efficiency.

VoiceSphere

Personal Voice Assistant

July 2023

- Voice-controlled assistant capable of recognizing commands and responding through speech.
- Utilizes libraries like speech_recognition for voice recognition and pyttsx3 for text-to-speech conversion.
- Seamless integration with pywhatkit, webbrowser and wikipedia to perform web searches using Google, Youtube, and Wikipedia.
- Offers functionalities like fetching time, date, weather information, perform basic arithmetic calculations and provides entertainment through games.
- Supports different voice modes and can respond to various miscellaneous statements like jokes and generic responses.

OneScale

iOS Unit Converter Application

April 2023

- Developed a versatile unit conversion app using Swift and SwiftUI.
- Employed SwiftUI's state management features such as @State for seamless data handling and user interaction.
- Designed an intuitive user interface with segmented pickers enhancing usability and user experience.
- Integrated navigation features and toolbar items for improved app navigation and enhanced user control.
- Implemented efficient keyboard interaction handling, ensuring smooth input and interaction flow.

POSITIONS OF RESPONSIBILITY

- Founder of CodeDesk community having network of 500+ individuals.
- Member of International Association of Engineers (IAENG).
- Executive Member of IEEE - Student Branch, IIIT Gwalior.
- Secretary at Rotaract Club of IIIT Gwalior.
- Core Team Member in Aurora '24, the Cultural Fest of IIIT Gwalior.

EDUCATION

B.Tech in Computer Science , 7.92 CGPA
IIIT Gwalior, India

November 2022- June 2026

CBSE-XII 95.6%

SNSPS, Yamuna Nagar, India

April 2021 – April 2022

SKILLS

Languages

- Python
- C/C++
- Swift
- Java
- SQL
- Javascript
- Bash

Backend

- Django
- DRF
- FastAPI
- Node
- Postman
- DialogFlow
- Docker

Database Systems

- SQLite
- MySQL
- PostgreSQL
- Realm

IOS Development

- SwiftUI
- UIKit
- ARKit
- Objective-C

Tools

- Git
- Github
- Latex
- DaVinci
- XCode
- Canva
- Figma

ACHIEVEMENTS

- Selected in top 10 teams of HackHub, 2023.
- Highest rating on Codechef - 1474, Two star.
- Achieved a five-star rating on HackerRank
- 4 times Gold Medalist in NSO and IMO.
- 99.3 percentile in JEE MAINS.

CERTIFICATIONS

- Python Data Structures - UM
- Python Course - Google
- iOS Mobile Development - Meta

COURSEWORK

- Data Structures
- Algorithms
- OOPS
- Operating System
- DBMS