

Ali Jafar

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Education

FAST NUCES, Bachelors in Computer Science

Aug 2022 – Present

- **Electives:** Fundamentals of Accounting, Psychology , Deep Learning for Perception

Projects

TasteBuds | Jetpack Compose, Firebase

github.com/TasteBuds

- Designed this app to simplify meal planning by helping users discover recipes tailored to their dietary preferences, and calorie goals.
- By integrating Spoonacular's API, the app provides accurate and detailed information on recipes, ingredients, and nutrition, ensuring that you get the best meal options with ease.
- Users can explore recipes as a guest or create an account to save your favorites and unlock personalized features.
- The app provides uplifting and motivational prompts, generated using Gemini's fine-tuned model, to keep you inspired on your food journey.

Mezbaan | Jetpack Compose, NodeJS, PostgreSQL, Firebase

github.com/Mezbaan

- Mezbaan is an all-in-one platform that simplifies event planning by enabling users to book venues, manage decorations, and arrange catering services.
- The app leverages NodeJS for API integration, enabling seamless communication between the front-end and back-end
- Firebase Authentication is implemented to provide a secure and reliable method for users to sign in using their Google or Facebook accounts.

ProbStats | Jetpack Compose, Flask, Firebase

github.com/ProbStats

- ProbStats is an app that helps users easily check their solutions and gain confidence in their understanding.
- The app leverages Flask for API integration, enabling seamless communication between the frontend and backend
- User authentication is handled by Firebase, providing a secure and reliable way for students to sign up, log in, and manage their accounts .

Thumb Recognition | Jetpack Compose, Flask, SIFT

github.com/recognition

- Developed a fingerprint recognition system using SIFT for feature extraction and matching, achieving accurate biometric identification without deep learning.
- Implemented image pre-processing pipeline including background removal, contrast enhancement, and SIFT descriptor storage using PostgreSQL and SQLAlchemy
- Built and deployed a full-stack solution, integrating a Python-based API with a mobile front-end using Kotlin and OkHttp for image upload and real-time match feedback

Certifications And Awards

DB Project: Mezbaan selected for Dev Expo @ Fast

Technologies

Languages: Kotlin, Python, Java, C++ , C

Tools: Android Studio, IntelliJ IDEA, VS Code, Git, Ubuntu

Technologies: Android - Jetpack Compose, Flask, Spring Boot [Kotlin]