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, Spring Boot, PostgreSQL, Firebase   github.com/Mezbaan
- Designed and developed an all-in-one event management platform that streamlines planning by allowing users to seamlessly book venues, coordinate decorations, and arrange catering services in a single app
- The app leverages Spring boot 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, Java, Python, C++, C

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

Technologies: Android - Jetpack Compose, Flask, Spring Boot