

# MOHIT GUJARATI

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"Android Developer with expertise in Kotlin, Jetpack Components, and Firebase, complemented by basic knowledge of React Native. Experienced in building scalable mobile apps with optimized UI/UX and efficient backend integration. Passionate about AI-powered features in mobile development and delivering high-performance solutions."

## EDUCATION

### **Long Island University, Brooklyn**

Master of Science in Computer Engineering

Coursework: Artificial Intelligence, Pattern Recognition, Python, DSA, System Design

2024- 2026

New York, USA

### **Shankersinh Vaghela Institute of Technology**

Bachelor of Engineering in Computer Engineering

Coursework: Java, Object-oriented programming, Data Structures and Algorithms

2016 - 2020

Gujarat, India

## SKILL

**Programming Languages:** - Kotlin, Java, Python, JavaScript, TypeScript.

**Android Development:** - Rest APIs, Native Android, React-Native, Android Jetpack-Components, Material Design, Coroutines, Jetpack Compose.

**Databases:** SQLite, Realm, Room database, Google Firebase Database (NoSQL), MySQL, SQL.

**Tools and Methodology:** - Retrofit, OpenCV, NumPy, GitHub, Rest APIs, JSON, MVVM, MVP, SOLID Principles.

**Achievements & Articles:** - On-campus Google developer group member, Python-IBM certificate, Java, Kotlin, SQL, LinkedIn certificate, Article on Microservice and Distributed Systems.

## PROFESSIONAL EXPERIENCE

### **Software Developer**

TNM Software Solutions Pvt Ltd.

May 2023- June 2024

Gujarat, India

- Engineered Android applications using **Kotlin** and **Android SDK**, integrating advanced features like motion sensors, geocoding, and geofencing to enhance **location-based functionality**.
- Boosted app performance by 50%** by implementing modern development practices, resulting in a smoother and more **efficient user experience**.
- I collaborated with Back-End and Test engineers, forging effective communication with various cross-functional teams.** This experience improved our project results and significantly sharpened my interpersonal skills in a collaborative setting to streamline the mobile and web app development using Native Android technology, React-native, and React, resulting in **4 production-ready applications** delivered within tight deadlines **over eight months**.
- Designed adaptable layouts** for mobile and web platforms using Android, React, and React Native, ensuring seamless user experiences across devices.

### **Android Developer Trainee**

Tops technology. Inc.

May 2022- May 2023

Gujarat, India

- Developed and launched **full-stack native mobile applications** using **Kotlin**, delivering key features that **increased user satisfaction and engagement**, while effectively designing and implementing targeted database solutions and optimizing API integrations for enhanced performance.

## PROJECTS -Github

### **TwinAI**:- Key Technology: **Kotlin, jetpack components, Room, firebase Authentication, material design, MVVM**

- Developed an AI-driven meeting assistant app enabling **real-time voice transcription** and **automated summaries**, leveraging **Gemini AI, Google Speech API, and Room Database**.
- Used **Kotlin Coroutines, Live Data, Motion Layout, and MVVM** to optimize app performance and maintenance. Moreover, increased **user efficiency by 70%** through **instant AI transcript chat and inbuilt meeting tracking**. Additionally, while users are online, the AI enhances the transcript and provides a summary of the meeting.
- Attained **exceptional audio-to-text accuracy in both online and offline modes**, providing users with **seamless offline access** while **enhancing privacy and reliability**.

### **Fleet Tracker**:- Key Technology: **Kotlin, jetpack-components, Realm, Google Maps, Geocoder, Geofences, Motion sensor, S.O.L.I.D,JVM**

- Developed an Android app featuring real-time fleet **location tracking** with Google Maps integration, utilizing geofencing to trigger **location-specific actions**.
- Used **Kotlin Coroutines, Live Data, Motion Layout, and SOLID principles** to optimize app performance and maintenance by **40%**.
- Integrated Motion sensors** for incident detection enhance the app's safety detection feature.
- Employed **Realm Database** for secure storage of safe-zone points, travel history, and user activity, enabling efficient data retrieval and analytics.

### **InEvents**:- Key Technology: **Kotlin, Firebase database, Firebase notification, SQLite, PHP,JVM, MySQL, Retrofit, Material design, MVVM**

- Designed, engineered, and launched a student event management system, deployed on the Google Play Store, which gained a steady user base of **200 daily active users** and **over 500+ total downloads**.
- Integrated Google Maps** for easy **event location tracking**, **streamlining registration** processes for university events. Leveraged **Firebase Firestore** and **MySQL** for efficient backend data management, **achieving 100% paperless event registrations**.
- Enhanced event visibility** by adding custom markers and a detailed page on Google Maps.
- Implemented **real-time updates** through **Firebase Notifications** and secure authentication. After graduation, the app was decommissioned and removed from the Play Store because it was no longer updated and maintained.

### **Face detection web app**:- Key Technology: **Python, OpenCV, NumPy, Flask, JSON, S.O.L.I.D.**

- Developed a **Face Detection System with 95% accuracy** utilizing OpenCV's Haar Cascade Classifier to detect faces in images, with robust annotation management using **JSON** for saving and updating face detection data. **Implemented Performance Evaluation Metrics**, including precision, recall, and **Intersection over Union (IoU)**, to assess detection accuracy and provide numerical and visual feedback on detection performance.
- Automated Dataset Processing** by handling multiple images, drawing bounding boxes around detected faces, saving results with annotations, and creating an output folder for further processing Like adding emojis or filters in a particular face matrix.