MOHIT GUAJRATI

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**"Android Developer with expertise in Kotlin, Jetpack Components, and Firebase, complemented by basic knowledge of React and 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***2024– 2026**

***Master of Science in Computer Engineering******(GPA –4.0/4.0)*** *New York, USA*

*Coursework: Python, DSA, System Design, DBMS, computer network, operating system*

*Shankersinh Vaghela Institute of Technology* **2016 – 2020**

***Bachelor of Engineering in Computer Engineering******(CGPA –7.32/10.0)*** *Gujarat, India Coursework: Java, Object-oriented programming, Artificial Intelligence, Data Structures and Algorithms*

# SKILLS

# Programming Languages: - Kotlin, Java, Python, JavaScript, Typescript, PHP.

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

**Web development (Basic): -** HTML, CSS, React, Flask, Bootstrap.

**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 May 2023– June 2024**

*TNM Software Solutions Pvt Ltd.**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 settingto 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 May 2022– May 2023**

*Tops technology. Inc.**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

**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**](https://github.com/MohitGujarati/SnapEvents):- ***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.

[**Face detection web app**](https://github.com/MohitGujarati):- ***Key Technology: Python, OpenCV, NumPy, Flask, Json Module, 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.

[**Travel website**](https://github.com/MohitGujarati):- ***Key Technology: React & React-native, JavaScript, HTML, CSS, Tailwind, Bootstrap Typescript, JSON, S.O.L.I.D.***

* Implemented **smooth animations** **enhancing user engagement**. Reduced the codebase by approximately **800+ lines** of code by creating a **reusable** **UI class increasing productivity by 50%** that automated the design process, enabling other components to efficiently generate **improved consistency of** **UI elements** across the application, significantly enhancing maintainability, scalability, and readability.