Mohit Gujarati

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# Education

**Long Island University, Brooklyn 2024– 2026**

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

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

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

*Bachelor of Engineering in Computer Engineering* ***(CGPA – 3.1/4.0)*** *Gujarat, India Coursework: Java, Object-oriented programming, Artificial Intelligence, Data Structures and Algorithms*

# Skills

**Programming Languages:** Kotlin, Java, Python, JavaScript, Typescript.

**Android Development**: React-native, android jetpack components, Material design, Coroutines, Jetpack Compose.

**web development**: HTML, CSS, React, Tailwind, Bootstrap, Flask.

**Databases**: SQLite, Realm, Google Firebase database(NoSql), phpMyAdmin, MySQL.

**Tools and Methodology**: Retrofit, OpenCV, NumPy, GitHub, Rest APIs, JSON, geocoder, geofence, MVVM, MVP, SOLID principles, Haar Cascade Classifier.

# 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.
* Collaborated with designers and back-end engineers to streamline the mobile app development process, resulting in **4 production-ready applications** delivered within tight deadlines **over eight months**.
* Designed adaptable layouts for mobile and web platforms using **React**, and **React Native**, ensuring seamless user experiences across devices.

# Projects

[***Face detection webapp***](https://github.com/MohitGujarati) ***| Python, OpenCV, NumPy, Flask, Json Module.***

* **Developed a Face Detection System** 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) ***| React, React-native, JavaScript, HTML, CSS, Tailwind, Bootstrap Typescript, JSON.***

* Designed and developed **a high-performance travel website** using React, TypeScript, JavaScript, HTML, CSS, and Tailwind CSS, delivering an intuitive and visually appealing user interface.
* Implemented **smooth animations** and interactive UI/UX elements, **enhancing user engagement** and overall customer satisfaction.
* Reduced the codebase by approximately **800 lines** by creating a **reusable** **UI class** that automated the design process, enabling other components to efficiently generate **consistent UI elements**, significantly enhancing maintainability, scalability, and readability.

[***InEvents***](https://github.com/MohitGujarati/SnapEvents)**| *Kotlin, Firebase database, Firebase notification*, *SQLite, Php, 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**.
* 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.