

# MOHIT GUJARATI

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## SUMMARY

Innovative Software Engineer specializing in Mobile (Android/Kotlin) and Web (React.js) development with a focus on AI/ML integration. Proven track record of building privacy-first applications leveraging Generative AI and NLP, and currently pursuing an M.S. in Computer Science, combining strong system design skills with expertise in deploying scalable, on-device intelligent solutions.

## EDUCATION

<b>Master of Science in Computer Science</b> <i>Long Island University, Brooklyn</i>	<b>Sep 2024 - May 2026</b> <b>GPA 3.8/4.0</b>
<b>Bachelor of Technology in Engineering</b> <i>Shankersinh Vaghela Institute of Technology, Gujarat</i>	<b>2016-2020</b> <b>3.1/4.0</b>

**Coursework:** Artificial Intelligence, Machine learning and Pattern Recognition, Deep Learning, Python, System Design and analysis, Java, JavaScript, SQL, No-SQL, MongoDB, Object-oriented programming, Data Structures and Algorithms

## SKILLS

- Programming Languages:** Kotlin, Java, Python, TypeScript, JavaScript
- Android Development:** Native Android (SDK), XML Layouts (View System), Coroutines, Jetpack Components (ViewModel, Navigation, LiveData), Room Database, Retrofit, MVVM Architecture.
- AI & Machine Learning:** Generative AI (Gemini API, Flan-T5), NLP (SBERT, Hugging Face Transformers), Vector Embeddings, Cosine Similarity, Scikit-learn.
- Backend & Web Technologies:** React.js, Flask, Styled-Components, HTML5/CSS3, RESTful APIs.
- Database & Tools:** Docker, Git/GitHub, Firebase (Auth/Firestore), Android Studio, SQL, MongoDB, Postman.

## PROFESSIONAL EXPERIENCE

<b>Software Engineer</b> , TNM Software Solutions	May 2023 - June 2024
<ul style="list-style-type: none"><li>Accelerated product delivery by shipping <b>4 production-ready applications</b> in just <b>8 months</b>, utilizing <b>Kotlin</b> and <b>React Native</b> to reduce cross-platform development time by <b>~20%</b>. Boosted application performance by <b>50%</b> by refactoring legacy code into <b>MVVM architecture</b> and implementing <b>Kotlin Coroutines</b> for non-blocking I/O, significantly reducing UI latency.</li><li>Engineered battery-efficient location services using <b>Google Geofencing API</b> and <b>Motion Sensors</b>, optimizing GPS polling intervals to reduce device power consumption by <b>30%</b>.</li></ul>	

**Android Developer Trainee**, Tops Technology Inc. May 2022 - 2023

- Built and deployed full-stack native Android applications in Kotlin, delivering features that increased user satisfaction and engagement. Designed optimized database solutions and streamlined API integrations, improving app performance and reliability.

## PROJECTS:[HTTPS://GITHUB.COM/MOHITGUJARATI](https://github.com/MohitGujarati)

<b>Twin AI – Intelligent Meeting Assistant</b>   <i>Kotlin, Jetpack Components, Room, Firebase, Material Design, MVVM, GIT</i>   <a href="#">Code Link</a>	
<ul style="list-style-type: none"><li>Architected an <b>offline-first sync engine</b> using <b>Room Database</b>, a privacy-centric architecture using <b>Room Database</b>, ensuring <b>100% data availability</b> and user privacy by storing sensitive meeting transcripts locally. Integrated <b>Google Gemini 1.5 Flash</b> via <b>Retrofit</b> to generate context-aware summaries and action items, reducing post-meeting review time by <b>~40%</b> for users.</li><li>Engineered a responsive chat interface using <b>XML Layouts</b> and <b>ViewBinding</b>, utilizing <b>Kotlin Coroutines</b> to offload heavy DB operations and maintain <b>UI smoothness</b>.</li><li>Implemented continuous voice processing using <b>Android Speech Recognizer</b>, adding custom error-handling logic to prevent recording interruptions during long sessions.</li></ul>	
<b>The Cognito Times-AI News Recommender System</b>   <i>React.js, Python, Flask, SBERT, Firebase</i>   <a href="#">Code Link</a>   <a href="#">Deployed-Demo</a>	
<ul style="list-style-type: none"><li>Engineered a hybrid recommendation engine using <b>Sentence-BERT (SBERT)</b> and <b>Maximal Marginal Relevance (MMR)</b>, increasing content diversity by <b>~30%</b> and eliminating filter bubbles through semantic vector re-ranking.</li><li>Built a scalable architecture with <b>React.js, Flask</b>, and <b>Docker</b>, serving real-time personalized predictions with <b>sub-second latency (&lt;200ms)</b> via optimized RESTful APIs. Developed a dynamic weighted fusion algorithm (60% explicit / 20% implicit signals) using <b>Firebase Firestore</b>, enabling instant feed adaptation based on live user interactions.</li><li>Integrated <b>Google Flan-T5 LLM</b> via <b>Hugging Face Transformers</b> to auto-generate concise context-aware summaries, reducing user information overload and enhancing content discoverability.</li></ul>	
<b>Fleet Tracker – Real-time Fleet Monitoring</b>   <i>Kotlin, Realm, Google Maps, Geocoder, Geofences, Motion sensor, S.O.L.I.D, GIT</i>	
<ul style="list-style-type: none"><li>Developed Android app for real-time fleet tracking with Google Maps, Geofencing, and motion sensor-based incident detection.</li><li>Used Realm Database for secure storage of safe zones, travel history, and user activity with fast retrieval. Applied SOLID principles, multi-threaded approaches using Kotlin Coroutines, improving app performance and maintainability by 40%.</li></ul>	
<b>InEvents – Event Management System</b>   <i>Kotlin, Firebase notification &amp; database, SQLite, PHP, JVM, MySQL, Retrofit, MVVM</i>	
<ul style="list-style-type: none"><li>Deployed an event management app on <b>Google Play Store (500+ downloads)</b> using Kotlin and Firebase, achieving 100% paperless registration for <b>200+ daily</b> active users. The app was unlisted after my graduation because it was not updated frequently.</li></ul>	