Naveen Singh

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Education

VIT Bhopal University		**2022–2026**
B.Tech in Computer Science	*CGPA: 8.57*	*Bhopal, MP*
Sunbeam School Varuna		**2021**
Higher Secondary	*Percentage: 89.8%*	*Varanasi, UP*
Sunbeam School Varuna		**2019**
Secondary	*Percentage: 91.8%*	*Varanasi, UP*

Skills

Programming Languages: Java, Kotlin, C++
Android Development: XML, MVVM, Dagger Hilt, Retrofit, Coroutines, Room, Firebase, Jetpack Compose
Tools & Platforms: Android Studio, IntelliJ IDEA, VS Code, Git/GitHub, Gradle, Firebase Console

Projects

Journal App | *Kotlin, XML, Firebase, MVVM, Retrofit* | Journal App (GitHub)   **June 2025**

- Developed a full-featured Android journaling app enabling users to perform CRUD operations on multimedia journal entries with real-time sync using Firebase Authentication and Cloud Firestore.
- Architected the app using MVVM and LiveData, enhancing modularity by 50% and reducing crashes by 30%.
- Designed a responsive UI using ConstraintLayout, Fragments, and RecyclerView, enhancing user engagement by 35% with smooth navigation and adaptive layouts.
- Integrated Retrofit and Kotlin Coroutines for efficient asynchronous API communication and background processing.

MyNotes | *Kotlin, Room, MVVM, Jetpack Components* | Notes App (GitHub)   **May 2025**

- Developed a high-performance note-taking app in Kotlin using Room Database, enabling users to perform CRUD operations on 1000+ offline notes with features like dynamic categorization, search, and timestamping.
- Implemented MVVM architecture with ViewModel, LiveData, and ViewModelFactory, ensuring lifecycle-aware, testable, and maintainable code.
- Built a robust DAO (Data Access Object) layer to streamline data operations and support scalable feature additions.
- Designed a modern, responsive UI using Material Design components, ensuring consistent behavior across various screen sizes and Android versions.

Hospital Management System | *Java, Swing, MySQL, JDBC* | Hospital Management System (GitHub)   **April 2025**

- Designed and developed a hospital management system with Java Swing and MySQL, supporting core modules like Patient Registration, Doctor Management, and Appointment Scheduling.
- Implemented Role-Based Access Control (RBAC), ensuring secure, segregated access for different user types and preventing 100% of unauthorized login attempts.
- Streamlined data workflows via an intuitive UI with validation logic, reducing data entry time by 30%.
- Utilized JDBC for seamless communication between the application and MySQL database, ensuring reliable and optimized CRUD operations.

Co-curricular Activities

- Participated in a hackathon at VIT Bhopal; developed a 3D Volume Calculator Android app with dynamic input handling and an intuitive UI for efficient volume computation.
- Certified in Android Development – *The Complete Android 15 Course*, Udemy (2025)
- Core Member, IoT Club, VIT Bhopal – Built Android interfaces for IoT-based projects and collaborated on integrating mobile apps with sensor-driven hardware systems.

Extra-curricular Activities

- Badminton Aficionado – Actively participated in college-level tournaments at VIT Bhopal
- Gold Medalist – Roller Skating – Secured 1st place in Roller Skating Championship, Sunbeam School Varuna
- Tech Enthusiast – Interested in new technologies and gadgets; enjoy trying out the latest tools, apps, and devices to stay up-to-date with tech trends.