Charchil Raj

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# Technical Skill

**Languages**: Java, Kotlin , JavaScript

**Frameworks:** Jetpack Compose, Appium, Selenium WebDriver, jUnit, RestAssured

**Development:** Android(Native-Kotlin) & Web (HTML, CSS , JavaScript,ReactJS)

**Tools/Skill:** Git, Android Studio, Postman, VScode, Github, Jetpack Components, Firebase

**Soft Skills :** Resilience , Perseverance, Rapid Skill Acquisition, Inquisitive Thinker

# Technical Projects

**Chat Nova – AI-Powered Chatbot Application January 2025**

* Engineered an AI-driven mobile chatbot delivering responsive, human-like conversations using Google’s Gemini API.
* Built an interactive chat interface with real-time messaging and smooth, animated transitions using RecyclerView.
* Integrated cloud-based authentication through Fire-base to ensure secure user access and data protection.
* Enabled offline functionality, allowing users to access core features even in limited connectivity scenarios.
* Optimized app performance by 30%, reducing UI response time and improving user satisfaction.
* Incorporated contextual response handling, enhancing conversation flow and user satisfaction.

*Technologies Used: Android studio (Kotlin), Firebase, gemini API, Retrofit, XML, Lottie Animations* : Hosted URL: [github](https://github.com/Rajcharchil/Chat-Nova)

### ThinkFood – Food Ordering App June 2025 – Present

* Developed a modern, responsive food‑ordering app enabling users to browse restaurants, customize orders, manage cart flows across mobile and web.
* Integrated Firebase Authentication (email/password) and Cloud Firestore to enable secure user sessions and real‑time order tracking.
* Employed Firestore snapshot listeners to sync cart contents and order status live, reducing perceived latency for end -users.
* Built intuitive screens (e.g. splash, menu, cart, payment, profile, order history) using React Native (Expo) and React Navigation, maintaining a consistent cross -platform look and smooth user experience.
* Managed UI and data state with React context/hooks and optimized performance via asynchronous Firestore queries and batched updates.
* Deployed web version via Netlify, enabling universal access without native builds. Behavior tested on both Android and iOS emulators.

*Technologies Used: React Native (Expo), Firebase (Auth, Firestore), React Navigation, JavaScript/TypeScript, Netlify (Web Hosting)*

 Hosted url: [github](https://github.com/Rajcharchil/ThinkfoodApp)

**Event Reminder Pro – Android Reminder & Utility App May2025**

* Engineered a feature-rich Android app to manage daily reminders with one-time and recurring event support via Room Database.
* Incorporated live weather updates using OpenWeatherMap API with dynamic icons and auto-refresh based on user location.
* Implemented a global world clock supporting multiple cities, real-time timezone management, and drag-and-drop reordering.
* Designed an intuitive UI using Material Design components with dark mode, FABs, and custom dialogs.
* Utilized Google Play Location Services for accurate GPS data and efficient permission handling.
* Added a stopwatch utility for basic time tracking with start, pause, and reset features.

*Technologies Used: Kotlin, Jetpack (ViewModel, LiveData, Navigation), Room, WorkManager, Retrofit, OpenWeatherMap API, Google Location API,Dagger Hilt, Material Design Hosted url : [https://github.com/Rajcharchil/EventReminderPro/releases/download/v1.0/EventReminderPro.apk](EventReminderPro.apk)*

# Achievements

**AI-Powered Early Disease Detection Feb 2025**

### Hackathon Project | Team Member

Secured 2nd Runner-Up position in a 24-hour hackathon by developing an AI-based solution for early disease detection using TensorFlow and OpenCV. The project analyzed X-rays and skin images with 95% accuracy and was deployed via a Streamlit web app for real-time predictions. Recognized for problem-solving, creativity, and teamwork in addressing a real-world healthcare challenge provided by industry experts.

Hosted URL: [Github](https://github.com/Rajcharchil/HackAI_Hackathon)

**[Certificate Url](https://www.udemy.com/topic/data-structures/?srsltid=AfmBOor_PmlrxhP6_YwGpHnDbM5DqASA3BtQi1k-qhFHvUjgu9StJXeCude.my/UC-397c196d-d19a-4f70-b7eb-2728c43677df) :** https://certificate.givemycertificate.com/c/9a29bd93-0aaf-416d-9b0b-b3f67687194c

# Certifications

## Java Application Development Certification Issued July 2024

* + 50-hour intensive training in Application Development using JAVA
	+ Completed advanced-level programming coursework covering Java fundamentals and application development

## Mastering Data Structures & Algorithms using C++ Udemy | Issued: Feb 2024 | 58.5 Hours

* Applied advanced algorithmic techniques to solve real-time problems efficiently in C++.
* Developed problem-solving skills and the ability to analyze time and space complexity.

**[Certificate Url](https://www.udemy.com/topic/data-structures/?srsltid=AfmBOor_PmlrxhP6_YwGpHnDbM5DqASA3BtQi1k-qhFHvUjgu9StJXeCude.my/UC-397c196d-d19a-4f70-b7eb-2728c43677df)**

# Education

**Lovely Professional University Punjab, India**

*B.Tech (Computer science and engineering) : CGPA - 7.0 Since 2022*

**Holy cross public school muzaffarpur,Bihar**

*12th with Science Percentage*: 70*% May 2019 - March 2021*