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# ALOK BHARTI

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## EMPLOYMENT

**Android Developer** **Carnot Technologies Pvt. Ltd.** **May 2020 - Present**

- Currently working on an android app that can be used in precision agriculture to increase productivity and yield in the farm by guiding farmers to follow a particular pattern in the field.
- Implemented and integrated MVVM architecture with reactive paradigm using RxJava to improve the overall efficiency of the app.
- Reduced the codebase of an existing app by sufficient amount to make it cleaner and readable by using data binding and other Jetpack libraries.

**Android Developer Intern** **Carnot Technologies Pvt. Ltd.** **May 2019 – Nov 2019**

- Worked as a part of the Variable Rate Controller project that can be used to control the fertilizer spraying rate in farm, I optimized the communication between the electronic controller device and the android app and then handled the communication between different modules inside the app using Service, Handler and Messaging Queue.
- Worked on different internal-testing apps that are used for debugging electronic devices communicating through either USB or Bluetooth. Later on merged these testing apps into one that helps the team to manage and operate testing using one app.

## SKILLS

**Languages and Technologies:** Android Studio, Java, Kotlin, Room, Realm, MySQL, firebase, python, GitHub

## EDUCATION

**Jabalpur, India** **Indian Institute of Information Technology, Jabalpur** **July 2016 - May 2020**  
B.Tech. in Computer Science and Engineering. CGPA: 7.2/10

## PERSONAL PROJECTS

- **DailyNews** ([app store link](#), [github link](#))
  - Developed a tinder-styled news app that makes reading more interactive and Implemented dark mode and search functionality for better user interaction.
  - Used Kotlin to leverage nullability check, Lambda functions, Sealed classes, Coroutines and Flow.
  - Integrated MVVM architecture, Room database and view binding for better efficiency and to avoid crash during runtime.
- **DonationBox** ([app store link](#), [github link](#))
  - Developed an app that allows online transaction of donations between users and NGOs. Used Firebase authentication and real-time database to store donations details.
- **SafeZone**
  - Developed an app that can track quarantined people. It checks user's location and ask them to upload a selfie at random interval to confirm their identity.

## ACHIEVEMENTS AND RESPONSIBILITIES

- DonationBox was also selected among the top 61 in 3500+ teams in **BuildForDigitalIndia boot camp** organized by Google along with Meity, Government of India.
- Secured 1<sup>st</sup> rank among 141 teams in **Threadbit hackathon** organized by IIT Indore along with Google DSC IIT Indore. Developed the first version of DonationBox.
- Secured national rank-1 among 376 participants in **Appathon, Codefest (IIT BHU)**. Developed an app within 2 days which can be used for checking all the recipes along with detailed nutrition amount and one can also search nearby hospitals in case of any emergency.
- Secured 3<sup>rd</sup> rank among 1050 teams in **Hack for Education HACKATHON** organized through Hackerearth. Developed an app that allow users to download educational resources for free and can further read it offline.