

# SARA SINGHAL

B.Tech. Electrical Engineering  
UG(III Year I Semester)  
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Registration No: B.Tech./EE/18121021/2021

Indian Institute of  
Technology  
Roorkee



## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	7.827
2018	Twelfth	Jai Hind Public School, Pooth Khurd, Delhi (Central Board Of Secondary Education, Delhi)	90.6 %
2016	Tenth	Ryan International School, Shahjahanpur, UP (Central Board Of Secondary Education, Delhi)	10.0

## Internships

### Google Summer of Code 2020 | MIT App Inventor

5th May 2020 - 8th September 2020

- Unlike conventional Android App development, instead of code MIT App Inventor uses a visual, block-based platform.
- Worked on the implementation of Menu components, Sidebar, and the Floating Action Button component.
- Added the Options Menu, Context Menu, and Popup Menu components to the App Inventor.
- Used the androidx version of libraries for implementing the Sidebar and the Floating Action Button components.

### Android Development Internship | Vestate

3rd April 2020 - 29th April 2020

- Developed an Android application for a startup based on a real estate investment cum trading platform.
- It enables the user to purchase a share of real estate at the desired location. The land can be used for rental purposes or can be sold if 50% of shareholders agree.
- Built the app using a single activity and the latest architecture components in Android Jetpack.

## Projects

### DigiTeen | IIT Roorkee

20th November 2019 - 5th January 2020

- Developed an Android application for the campus students, as a part of Season of Code 2019.
- It digitise the entire food ordering process in the canteens and ensures hassle-free delivery to the right person.
- It uses a unique token number generation system to ensure the first-come-first-serve principle.
- Built the app using a single activity and the latest Android Jetpack architecture components and Firebase Realtime database for the backend.

### Wireworld | IIT Roorkee

March 2020 - April 2020

- Wireworld is a cellular automaton, suited for simulating the electronic logic elements, or "gates".
- Worked on simulating a seven-segment decoder and display using the cellular automation rules of Wireworld.
- It takes an input from the keyboard numpad and demonstrates the rules of Wireworld by displaying the signal flow through the seven-segment decoder and finally displaying the digit in the seven-segment display.

## Awards / Scholarships / Academic Achievements

- Changed branch from Polymer Science and Engineering to Electrical Engineering.

## Skills

Computer languages C++, Java  
Software Packages Android Studio, Git, IntelliJ IDEA, Sublime Text Editor  
Languages Known English (SRW) , Hindi (SRW)

## Positions of Responsibility & Extra Curriculars

### Project Manager, Mobile Development Group, IIT Roorkee

January 2020 - Present

- Involved in developing various Android Applications for the campus as well as open to the Internet.
- Conducted internal and open lectures on topics related to Mobile Development and Software Development.

### Representative, Student's Consultative Committee, Electrical Department

24th October 2019 - Present

- Presented the opinion and acted like the voice of my year to provide DAPC with a clear image of students requirements.
- Helped DAPC in shaping policies and changes in academic curriculum.

### Event Coordinator, Cognizance

March 2019

- Organized and managed the execution of Schlumberger Day case study event organized during Cognizance, the annual technical festival of IIT Roorkee.

## References

### Evaldas Latokinas

Mentor, GSoC 2020 @ MIT App Inventor  
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