

# Krishmeet Singh

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## EDUCATION

**Indraprastha Institute of Information Technology (IIIT) Delhi**

*B.Tech in Computer Science and Social Sciences*

New Delhi, India

Dec. 2020 – May 2024

## EXPERIENCE

**Android Developer**

May 2023 – May-2024

*Melange Research Lab*

*IIITD, New Delhi*

- Worked on Project **TIES : TV Interactive Engagement System**
- Enhanced **TV** communication for the elderly through an **Android App**, enabling seamless integration between smartphones and TVs
- Developed features such as usage tracking, unusual activity behavior detection, medical reminders, video calls, and QR-based pairing, allowing direct messaging within the TV accessible from anywhere through a phone over the internet
- Integrated a **ML model** to detect **unusual activity** in the TV using **Scikit-Learn** and **ONYX** in the Android app
- Implemented Fragments, **MVVM** architecture and Custom Components for efficient development
- Utilized technologies such as **Android Studio**, **Kotlin**, **XML**, **Figma**, and **Firebase** for project development
- Integrated SDKs including **Agora**, **Zxing**, **SquareUp Picasso** and **Leanback** to enhance project capabilities

**Production Manager , GSL**

Jan. 2023 – Dec. 2023

*TCS Centre for Design and New Media*

*New Delhi, Delhi*

- Worked on Project : Govindpuri Se Left IIITD
- Founded and launched the official Podcast of IIITD, providing crucial outreach for the institute
- Expertly curated and managed two successful seasons of the podcast
- Cultivated exceptional communication and networking skills through interactions with guests and listeners

## PROJECTS

**Motion Sensing Android App** | *Android Studio, Kotlin, XML, Accelerometer, Magnetometer* Feb 2023 – Mar 2023

- Designed and created an innovative Android app utilizing pedestrian dead reckoning (**PDR**) to accurately track the number of steps walked by a person
- Implemented functionality to detect when a user is taking the Lift and Stairs, enhancing the app's usability and convenience and also visualised the trajectory on a graph.
- Github Repo : [Link](#)

**Modified Raft Consensus Algorithm** | *Python, Github, Google Cloud Console*

Feb. 2024 – Mar 2024

- Implemented and modified the Raft Consensus algorithm with **gRPC** and key value pair to improve the efficiency and fault tolerance of the project.
- Introduced leader lease to enhance the effectiveness of the algorithm
- Demonstrated strong problem-solving skills and ability to optimize system performance through algorithm enhancements
- Github Repo : [Link](#)

**Will Hero Mobile Game Clone** | *Java, JavaFX, Scenebuilder*

Nov 2021 – Jan 2022

- Successfully created a fully functional clone of the popular mobile game Will Hero
- Utilized OOPS Principles to ensure efficient and organized code structure
- Demonstrated proficiency in Java, JavaFX and Scene Builder to develop the project
- Github Repo : [Link](#)

**Database Management System for a Cab Booking Service** | *Python Tkinter, Mysql*

Mar 2022 – May 2022

- Developed and implemented a comprehensive database system for a hypothetical online cab service, ensuring efficient storage and retrieval of data
- Utilized Mysql to manage and manipulate data, enabling seamless operations and quick access to information .
- Designed and developed a user-friendly interface using Python Tkinter, enhancing user experience and facilitating easy interaction with the system.
- Github Repo : [Link](#)

## TECHNICAL SKILLS

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**Languages:** Kotlin, Java, Python, C/C++

**Expertise Area:** Android Development, JavaFX App Development, Python Tkinter Development, Mobile Computing, Data Structures and Algorithms, OOPS, Operating Systems, Database Management Systems, Audio Video Production and Editing, Human Computer Interaction, Firebase, Git

**Developer Tools:** Android Studio, JavaFX and Scenebuilder, Firebase, Mysql, Figma, Davinci Resolve, Github

## RECOMMENDED BY

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**Prof. Aman Samuel** | [Link](#)

**Dr. Pushpendra Singh** | [Link](#)

## POSITION OF RESPONSIBILITY

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### Coordinator

May 2022 – May-2024

*Tasveer IIITD*

*New Delhi*

- Coordinator of the College Photography and Videography Club of IIITD
- Core Lead and Mentor of the videography and Management team.
- Organized and facilitated numerous workshops, events, and courses
- Coordinated a team of over 30 members to successfully cover various IIITD events ,

### Community Worker

Aug. 2023 – Nov. 2023

*Manav Sewa Trust*

*Sonepat, Haryana*

- Performed social work for the betterment of society with the NGO
- Demonstrated commitment by actively participating in the functioning and operations of the NGO
- Certificate : [Link](#)

Declaration: The above information is correct to the best of my knowledge. – Krishmeet Singh