

# SAUMIA SINGHAL

B.Tech. Production and Industrial Engineering  
UG(III Year I Semester)  
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Registration No: B.Tech./IN/16119029/2019

Indian Institute of  
Technology  
Roorkee



## Area of Interest

Software development, Open Source development, Machine Learning, Mechanical Engineering

## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2018	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	9.222
2015	Twelfth	Pinewood School, Saharanpur (CBSE)	90.8 %
2013	Tenth	P.M.S Public School, Moradabad (CBSE)	10.0

## Internships

**Summer Research Fellowship** | Indian Institute of Science, Bangalore

May 14, 2018 to 13 July, 2018

- Worked on the topic "A Microscopic Traffic Simulator Integrated Driving Simulator".
- Developed a server using sockets for the real-time exchange of data between a traffic simulator, VISSIM and a gaming engine, Unity3D.
- Provided the user the control of a simulator vehicle and sent its trajectories back to VISSIM so that other vehicles can change their behaviours on the basis of user behaviour.
- Worked on Virtual Reality and transferred the whole project from Unity to Oculus Rift.
- Planning to transfer this project to big screens while taking user input from controllers.

## Projects

**Plan-et** | App development

March 1, 2017 to March 18, 2018

- It is a treasure hunt game that works on the principles of Augmented Reality.
- You have to decode the hints correctly and then scan the targets to unlock the next hint.

**Aparna - Women Socializer** | App development

March 10, 2018 to March 20, 2018

- Participated in Women Hackathon and developed an app, especially for women, to socialize and freelance their skills.
- This app involves the basic features of various other social media apps like Facebook, Instagram etc.
- It also involves the features of a basic chat app.
- Also participated in Google Startup Weekend with this app as submission.

**Design and modelling of the robotic arm gripper mechanism** | Mechanical Department, IIT Roorkee

August 2, 2017 to Nov 28, 2017

- This project involves making a 3D model of robotic arm in Solidworks.
- It also involves finite element modelling and static structural simulation of robotic arm on Solidworks.

**Momento Design** | 3D modelling

August, 2017 to September, 2017

- 3D model of a Momento relating to the life at IIT Roorkee campus was developed.

## Awards / Scholarships / Academic Achievements

- Dedicated Proficiency Holder at National Service Scheme, IITR.
- Secured 2nd rank nationwide in NASA Astronomy Olympiad 2012-13 and got a chance to visit NASA Kennedy Space Center, Orlando, Florida.
- Secured a rank of 4023 in Joint Entrance Examination, Advanced, 2016.

## Skills

Computer languages	C++, Csharp, Python, Java, Javascript, HTML, SQL, Latex (basic)
Software Packages	Unity 3D, Android Studio, Git, GitLab, Linux, Cinema 4D, Adobe Photoshop, Adobe Illustrator, Adobe After Effects, AutoCAD, Solidworks
Languages Known	English (SRW), Hindi (SRW)

## Positions of Responsibility & Extra Curriculars

**Product Manager, Design Studio, IITR**

2017 to present

- Working in a team of 25 designers and developers on various projects involving graphic designing, 3D modelling, game development, app development.
- Worked in a team of designers and developers working in the central team of the fest that was worth Rs. 1,25,00,000.
- Designed various creatives related to marketing and promotion for the 150+ events, 14 workshops, 10 exhibitions, 20 guest talk, 2-panel discussion and 4 live shows.

**Graphic designer, Kshitij, IITR**

2017 to present

- Worked in a team to promote a literary environment in the campus
- Designed various articles, poems and advertisements for the magazine

**Designer, Technocreative Cell, National Service Scheme**

2017

- Designed posters, flexes, brochures for the promotion of various social events across the campus.