

# Shubham Singh

JUNIOR UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTING

Indian Institute of Technology, Kanpur

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## EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution(Board)	CGPA/%
July'17 – Present	B.S., MTH	Indian Institute of Technology, Kanpur	8.7/10.0
2017	CBSE – XII	J.T. Golden Jubilee School, Allahabad	94.4%
2015	CBSE – X	J.T. Golden Jubilee School, Allahabad	10.0/10.0

## SCHOLASTIC ACHIEVEMENTS

2017	<b>Academic Excellence Award</b> , Exceptional Performance in Freshmen Year	IIT, Kanpur
2017	<b>All India Rank 1732</b> , Joint Entrance Exam Advanced	India
2016	<b>Science Talent Search</b> , Secured 2 <sup>nd</sup> position in Mathematics	HRI, India

## WORK EXPERIENCE

### Google Summer of Code

ARTICLES, ROCKET.CHAT

Summer 2019

- Worked on two Open Source projects, Ghost(publishing platform) and Rocket.chat.
- Modified Ghost code to allow easy integration with Rocket.chat.
- Allows Rocket.Chat user to create account on Ghost with a simple redirect, and utilize all the features provided by Ghost.
- Implemented webhooks to keep both application database in sync.
- Added Ghost in Rocket.chat as a social feature for Rocket.chat users.

### C3i Center, IIT Kanpur

Kanpur, India

DYNAMIC VERIFIABLE FREQUENCY BASED BILLING, UNDER PROF. SANDEEP SHUKLA

May. 2019 - July. 2019

- Implemented a frequency based pricing system for two-way distribution model between consumers and distributors.
- Implemented a private blockchain network using hyperledger fabric framework.
- Created a react based web application to simulate a day events in network.
- Worked on hyperledger explorer to monitor the changes in the network.

### Leena AI

Gurgaon, India

INTERN, APP DEVELOPER

Dec. 2018

- Worked on a scalable cross-platform application, built using React Native framework.
- Built a Chat app from scratch where user can chat with multiple bots assisting them with their HR, IT, and other employee related queries.
- Integrated web-socket in the app for two-way communication between client and server.
- Added push notification service in app for notifying user about the updates on his/her query.

### New York Office, IIT Kanpur

Kanpur, India

INTERN, UNDER PROF. MANINDRA AGARWAL

May. 2018 - July. 2018

- Worked on a scalable android application, designed in MVP architecture.
- Integrated editor in app to allow rich text editing, in different source type- Markdown, HTML and WYSIWYG.
- Created a detail fragment where user data can seen in brief, and can be redirected to user's profile.
- Improved UI/UX of the app by implementing features associated with menus, viewpagers, card views, preference layouts etc. adhering to Google's Material Design guidelines.
- Implemented linting and unit testing as part of development workflow.

## PROJECTS

### Code.Fun.Do++

Microsoft India

HACKATHON

Sept'2018

- Developed an android app which helps to connect victims of any disaster event, with Disaster relief agencies.
- Used Firebase tools for creating serverless APIs and database.
- Used Firebase notification service for notification.

## RELEVANT COURSES

Introduction to Programming(A\*)   Set Theory & Logic   Data Structures and Algorithms   Probability and Statistics Analysis-I

A\*: Grade for exceptional performance

## POSITIONS OF RESPONSIBILITY

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### Web Executive

STAMATICS

- Maintain the Website of Stamatrics group, Dept. of Mathematics and Statistics.

*IIT Kanpur*

*2018-19*

### Academic Mentor

COUNSELLING SERVICE

- Academic mentor to students of the freshman year, helping and guiding them in their courses.

*IIT Kanpur*

*2018-19*

## MISCELLANEOUS

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- Contribute to Open Source projects like Rocket.chat
- Started an Open Source project for GSoC organizations to keep track of student's contribution for better selection criterion.
- Completed Linux from Scratch project, which guides to build our own custom Linux system.