

Shubham Singh

UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTING

Indian Institute of Technology, Kanpur

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EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution(Board)	CGPA/%
Jul'17 – May'21(exp.)	B.S., MTH	Indian Institute of Technology, Kanpur	8.8/10.0
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	Academic Excellence Award , Exceptional Performance in Freshmen Year	IIT, Kanpur
2017	All India Rank 1732 , Joint Entrance Exam Advanced	India
2016	Science Talent Search , Secured 2 nd position in Mathematics	HRI, India

WORK EXPERIENCE

Widechat, Viasat

Remote

SOFTWARE DEVELOPER, CONTRACT

Oct'19 - Present

- Worked on making Rocket.chat a progressive web application
- Implemented service worker, and browser local storage to make Rocket.chat an offline first application
- Working on various features for livechat integration in the application

Samsung

Remote

SOFTWARE DEVELOPER INTERN

May'20 - July'20

- Worked on a novel idea in image classification and image enhancement
- Experimented various methods, including Few-shot learning, Unet architecture
- Created Android application to capture user dataset, and used the data to train the model

Goldcast

Remote

SOFTWARE DEVELOPER INTERN

April'20, Aug'20

- Goldcast is a turnkey platform for marketers and event organizers to conduct live virtual business events and conferences with measurable ROI
- Developed the early-stage MVP version of the platform(in private beta)
- Developed the scalable version the platform, using AWS and vueJS framework

Google Summer of Code

STUDENT DEVELOPER, ROCKET.CHAT

Summer 2019

- Worked on the two open source project, Ghost(publishing platform), and Rocket.Chat
- Added Ghost in Rocket.chat as a social feature for users to create blogs/articles/post and share with others
- Implemented web-hooks to keep both applications data in sync

C3i Center, IIT Kanpur

Kanpur, India

INTERN, UNDER PROF. SANDEEP SHUKLA

May'19 - July'19

- Topic: Dynamic verifiable frequency based billing system
- 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, and worked on hyperledger explorer to monitor the changes in the network

New York Office, IIT Kanpur

Kanpur, India

INTERN, UNDER PROF. MANINDRA AGARWAL

May'18 - July'18

- 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
- Implemented linting and unit testing as part of development workflow

COURSE PROJECTS

Mozart Interpreter

Prof. Satyadev Nandakumar

PRINCIPLES OF PROGRAMMING LANGUAGE

Aug'19 - Nov'19

- A declarative-concurrent interpreter for Oz based on the Kernel language.
- Management of Semantic Stack, Single Assignment Store, Environment, Closures etc.
- Source code can be found here: <https://git.io/JUtgX>

EXTRACURRICULAR

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*)
Data Structures and Algorithms
Principles of Database Systems
Programming for Performance(i)

Numerical Methods & Scientific Computing(A*)
Principles of Programming Languages
AI techniques in Data Mining
Statistical Simulation(i)

Bayesian Analysis
Probability and Statistics
Computer Architecture

A*: Grade for exceptional performance i: Ongoing courses

POSITIONS OF RESPONSIBILITY

Web Executive

IIT Kanpur

STAMATICS

2018-19

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

Academic Mentor

IIT Kanpur

COUNSELLING SERVICE

2018-19

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

MISCELLANEOUS

- 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.