SHUBHAM SINGH

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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

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

SCHOLASTIC ACHIEVEMENTS

- Academic Excellence Award, Exceptional Performance in Freshmen Year
- All India Rank 1732, Joint Entrance Exam Advanced
- Science Talent Search, Secured 2nd position in Mathematics

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.

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 Assigment Store, Environment, Closures etc.
- Source code can be found here: https://git.io/JUtgX

POSITIONS OF RESPONSIBILITY

Web Executive — *IIT Kanpur*
Stamatics — 2018-19
- Maintain the Website of Stamatics 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.

RELEVANT COURSES

Introduction to Programming(A∗)	Bayesian Analysis
Programming for Performance(i)	Statistical Simulation(i)
AI techniques in Data Mining	Probability & Statistics
Data Structures and Algorithms	Computer Architecture
Principles of Database Systems	Principles of Programming-
Numerical Methods & Scientific-	Languages
Computing(A∗)	

A∗: Grade for exceptional performance i: Ongoing 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.