

Mohit Kumar Singh

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EDUCATION

IIT KANPUR

BTECH IN CHEMICAL ENG.

Apr 2020 | Kanpur, India

Cum. GPA: 8.5/10

INTERMEDIATE CBSE

Phy•Chem •Maths •Comp

APR 2016 | DAV, Jamshedpur

Cum. GPA: 94.8%

MATRICULATION - CBSE BOARD

APR 2014 | SJDAV, CBSA

Cum. GPA: 10/10

LINKS

Github:// [MohitKS5](#)

LinkedIn:// [mohit-singh-iitk](#)

Gmail:// [mohitkumarsingh907](#)

SKILLS

PROGRAMMING

Over 50,000 lines:

Golang • Postgres • CSS • React

TypeScript • Angular 6 • Material

Over 10,000 lines:

Node|Express • Flutter • MongoDB

Technologies:

ELK • Cloudfront • S3 • SES • Stripe

lightsail/EC2 • Cloudwatch • Shopify

Toolchains :

Docker • Bash scripting • QOR

OTHERS

Utilities:

LaTeX • HTML/XML • Git • BitBucket

Android Studio • Microsoft Azure • Emacs

ACHIEVEMENTS

JEE ADVANCED'16

AIR 1964

Among 1.5 Lakhs top JEE Mains qualified aspirants from all over India.

JEE MAINS

223/360

Secured place in top 0.1% of 1 Million+ candidates.

INTERNSHIP PROJECTS

CLASSENGAGE.COM | LEAD SOFTWARE DEVELOPER

Oct 2019 - Jun 2020

- Developed a secure REST API in Go integrated with payments, **zoom** meetings, push notifications, cloud storage and **streaming**, email and sms promotions handling multiple-apps with interconnected data comprising of **several databases**. Amounts to **300+ fully documented endpoints**.
- Prepared a Web UI for clients to manage their apps' payments and resources.
- An admin portal with fully **automated production flow**. On new client: add database, establish connections to client ui and api, build apk and set up metrics for monitoring on single click.
- Used cutting edge technologies for production environment - **ELK** stack logging, cloudfront **caching**, **FCM** notifications and cloudwatch monitoring.

CHOWKIDAAR-ELASTIC STACK WATCHER | NOBROKER INTERN

13 May 2019 - 30 May 2019

- Created a **MERN** application integrated with **elastic search** engine to calculate and **notify** inconsistencies in data as alerts on slack.
- Visualization** of realtime data using dynamically generated scripts for **Kibana**.
- Completely **dockerized development & production** configurations.
- Opensource** product with intuitive material UI and **JSDOC** documentation.

LEAD CREATION MIRCROSERVICE | NOBROKER INTERN

20th June 2019 - 12th July 2019

- Created MERN application to smartly show a list of **recommended properties** based on **organic search** and recent **user-specific events**.
- On site Call** support and **scheduler** to connect customers and fix appointments.

MERGE SORT AS FINITE STATE MODEL (FSM) | NOBROKER INTERN

1st June 2019 - 4th June 2019

- Task to **sort 15000 images** in least possible manual comparisons.
- Implemented merge sort as a **five state sequential model** governed by post requests between **UI & node server**.

MARKET EXCHANGE API & ADMIN PORTAL | BITPARX (STARTUP)

May 2018

- Developed an application in **Golang** for bitcoin market based on binance.
- implemented **Websockets** for real time data endpoints such as market tickers.
- mail service** for mass mailing, email verification, advertisements and stuff.
- Frontend to the market api, featuring **real time tickers**, order, transactions.
- Asset management**. Net volume held in various servers, candlesticks, relevant graphical representations and **level based authentication system**

FREELANCE

DEMAARS | BACKEND DEVELOPER

June 2020

- REST API for an Gems Ecommerce store with all features amazon offers.
- Admin portal for Content management, refund requests, customer management and delivery tracking.
- Heavily cached content in Redis for millisecond response times, international payments and multilingual content support.

PROJECT LINKS

FREELANCES/INTERNS

FinerEdge:// fineredge.net
Classengage:// classengage.com
Demaars:// demaarsgems.com

ANTARAGNI

Antaragni'17:// old.antaragni.in
Antaragni'17 App:// [Play Store](https://play.google.com/store/apps/details?id=com.antaragni)
Antaragni'18:// antaragni.in
Admin Portal:// backend.antaragni.in
Campus Ambassador:// ca.antaragni.in

TECHKRITI & FSAE

Techkriti:// techkriti.org
IITKMS:// sae@iitk

NON SCHOLASTIC

ACTIVITIES

FORMULA BHARAT COMPETITION

FSAE, India
15th position out of 80+ cars all over india
Prepared and participated in cost event

ROBOTRICKS

Takneek 2016 | Tech Competition
2nd Runner Up
Designed and fabricated a Robot that is capable of gripping and lifting objects.

DESIGN O' FLARE

Takneek 2016 | Tech Competition
Runner Up
Utilized DS Solidworks 2016 to develop an experimental apparatus. Points awarded for complexity, detail and resemblance.

COURSEWORK

SOFTWARE

Fundamentals of computing
Computational Methods
Data Structure and Algorithms
Advanced Algorithms
Computer Organisation & Architecture
Database Management
Computer Networks

COURSE PROJECTS

Ecommerce Web app (Database)
Irrigation system (Technical Art)
Herb infused oil (Process industries)
Naphthali Sandlom Algoritm (Matlab)

CAMPUS HAAT | FRONTEND DEVELOPER

Dec 2018

- Frontend in angular 6 for a online buy and sell store for universities.

FINER EDGE | FLASH DEVELOPER

Dec 2017

- Prepared a website for the finer Edge, multinational architectural company.
- Displayed Gallery of 800+ Pictures in an elegant way with slides and collages.
- Adhered to the demands of the client resulting in finalization with mere 2 drafts.

UNIVERSITY PROJECTS

ARES, APHRODITE | ANTARAGNI'18 BACKEND AND FRONTEND

Mar 2018 – Oct 2018 | IIT Kanpur

- Use of firebase cloud functions, google cloud storage and cloud firestore for databasing and storage.
- Registration, Payments and database management integrated with townsript API for various events and competitions to be held during the fest and in various cities pre-fest.
- Facebook login and data fetching from graph API. Fetching posts from antaragni page and allow sharing on fb from the website.
- Provided a flexible frontend managed by a GUI interface in a user-friendly way. Implemented real-time editing using three-way binding of websockets and angular frameworks.
- Milliseconds navigation performance by optimized image imports in webpack format and server side rendering using angular universal backed by extensive caching of service workers.

BABYLON | ANTARAGNI'18 ANDROID + IOS

Jun 2018 – Oct 2018 | IIT Kanpur

- Built android cum iOS app for antaragni using flutter framework in dart.
- App remained Trending for a month since launch, even reached 1 for the fest week.

POSITIONS OF RESPONSIBILITY

ANTARAGNI'18 | HEAD, WEB

Expected Apr 2018 – Oct 2018 | Cultural Fest, IIT Kanpur

- Lead the designing of **8 websites** and **2 apps** from scratch featuring Antaragni.
- Registration and Payments for **8000 participants** from **300+ colleges** opting for 10 professional events and 70 competitions.
- **Angular 6** framework with material UI, supported by firebase backend.
- Facebook integration for login and post sharing, written in **typescript**.

TECHKRITI'18 & ANTARAGNI '17 | SENIOR WEB EXECUTIVE

May 2017 – Mar 2018 | IIT, Kanpur

- Full **MEAN** stack written in typescript. Frontend, Angular 2 with material.
- **Dynamic** website with flexibility in design and content.
- Provided a flexible UI to update the contents of frontend in a **user-friendly** way.

FSAE | WEB DEVELOPER & CHASSIS TEAM

Jan 2017 – Jan 2018 | IITK Motorsports

- Built a Web Application from scratch using Angular 4 as the framework.
- Implemented Firebase authentication, cloud storage and **real-time** databasing.
- Exposing the potential of team in a representative manner to **lure the sponsors** and car enthusiasts.