Mohit Kumar Singh

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EDUCATION

IIT KANPUR
BTech in Chemical Eng.
Apr 2020 | Kanpur, India
Cum. GPA: 8.3/10

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 • ES6 • CSS
TypeScript • Angular 6 • Material
Over 10,000 lines:
Flutter • Dart • Nose|Express • Firebase
Familiar:
Docker • MongoDB • MySQL
Picking up:
Blockchains • Cryptography • Networks

OTHERS
Utilities:
LATEX• HTML/XML • Git
Tools:
Android Studio • Microsoft Azure • Emacs
Undergrad Courses :
C++ • Matlab • Octave •Excel

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

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 dev**elopment **& prod**uction 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.
- **i**mplemented **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

EDTECH | Backend Developer
Oct 2019
- Prepared a backend in golang for a courseware (ex. embibe) android app.
- Handled student enrollment and management, online video store and streaming, p2p chats.
- Session management via JWT tokens for multi device sign in and 2 way auth via otp.
- 150+ properly documented api endpoints.

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.

PROJECT LINKS

ANTARAGNI
Antaragni'17:// old.antaragni.in
Antaragni'17 App:// **Play Store**
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 Algoriths
Advanced Algorithms
Computer Organisation & Architecture
Database Management
Computer Networks

HUMANITY SCIENCES
Elements of Visual Design
Art Criticism
Microeconomics
Introduction to Logic

* Ongoing

UNIVERSITY PROJECTS

ARES | ANTARAGNI'18 BACKEND
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 townscript 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.

APHRODITE | ANTARAGNI'18 FRONTEND
Mar 2018 – Oct 2018 | IIT Kanpur
- 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.
- Designed UI and interactive animations for various websites featuring the fest adhering to the theme.
- Click and go performance by optimized image imports in webpack format and server side rendering using angular universal along with extensive caching of service workers.

BABYLON | ANTARAGNI'18 ANDROID + IOS
Jun 2018 – Oct 2018 | IIT Kanpur
- Currently involved in building android cum iOS app for antaragni using flutter framework in dart.
- Employed Core app designs as listed in developer.android standards.
- Aimed to be launched by September with facebook Auth, TownSript payments and firebase databasing.

TEHCKRITI'18 & ANTRAGNI'17 | WEBSITES + DATABASE
May 2017 – Mar 2018 | IIT Kanpur
- Implemented Full MEAN stack utilizing angular 4 and Express frameworks , MongoDB database and material design.

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 Mototorsports
- 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.