# Pankaj Kumar Agarwal

#### STUDENT SOFTWARE ENGINEER

Azad Hall of Residence, IIT Kharagpur West Bengal, India - 721302

## **Education** \_

#### **Indian Institute of Technology Kharagpur**

Kharaqpur, WB

B.Tech + M.Tech (Dual Degree) in Computer Science and Engineering, CGPA\*: 8.07/10.0

2018 - Present

## Skills \_\_\_

**Languages** Python, C

Frameworks/Libraries Django, Flask, JSON, NetworkX, requests, BeautifulSoup, pymongo

Others Git, Github, Linux (Ubuntu), OOP, JSON, API, HTML, CSS, MongoDB

#### Relevant Coursework \_

**Computer Science** 

Programming and Data Structures, Algorithms 1, Discrete Structures, Formal Language and Automata Theory\*\*, Software

Engineering\*\*, Switching Circuits\*\*

Mathematics Maths 1, Maths 2, Probability and Statistics\*\*

## Relevant Experience \_\_\_\_\_

BugTracker[link] IIT Kharagpur

SOFTWARE ENGINEERING LAB

April 2020

• Implemented a complete Bug Tracking system from scratch using Flask as back-end framework and bootstrap for front-end development.

Lawbranian[link] IIT Kharagpur

OPENSOFT 2019 IIT KHARAGPUR

March 2019

- Processed a large number of raw txt data files into usable from.
- Processed huge amounts of JSON data files into directly usable from.
- Populate Graph for the Legal Knowledge Graph and store in neo4j graph database for further use.
- · Wrote a bunch of Classes among the many used for nodes of the Legal Knowledge Graph and otherwise.
- Stored the required JSONs in a MongoDB.

Kronos[link] IIT Kharagpur

KHARAGPUR WINTER OF CODE

Dec. 2018

- Learned about APIs, JSONs, HTTP requests
- · Learned python libraries to send HTTP requests and fetch data from apis, to handle JSONs, namely requests and json.
- Using the above mentioned technologies and hercules api added a feature which which tells about which course was taught by which prof. in which semester.

#### Scholastic Achievements

**JEE Advanced** Secured All India Rank of 423 amongst more than 2,00,000 students

JEE Main Secured All India Rank of 1382 amongst more than 1.1 million candidates

BITSAT Scored 361/450 in BITSAT, conducted by Birla Institute of Technology, Pilani

## Activities and Leadership \_\_\_\_\_

## KOSS IIT Kharagpur

Kharagpur, WB

CORE TEAM MEMBER Feb 2019 - PRESENT

• Responsible for smooth conduct of events to familiarize students with opensource technologies and philosophy in the campus.

<sup>\*</sup>AT THE END OF 3 SEMESTERS

<sup>\*\*</sup>TO BE COMPLETED BY MAY 2020

## Manga and Anime Society Kharagpur, IIT Kharagpur

Kharagpur, WB Aug 2019 - PRESENT

FOUNDER AND HEAD OF WEB TEAM

• Leads web team of Manga and Anime Society Kharagpur to make and update the website.

NSS ,IIT Kharagpur Kharagpur, WB

MEMBER OF NSS UNIT-8

July 2018 - PRESENT

• Won Gold(among 15 units) during the annual camp hosted by NSS, IIT Kharagpur for our Generous and Hard work at the camp, which aims to improve the daily life of people in poor villages around the campus by helping them build roads, Toilets, etc. and Also conduct awareness programmes, surveys in the villages.

<sup>\*</sup>AT THE END OF 3 SEMESTERS

<sup>\*\*</sup>TO BE COMPLETED BY MAY 2020