

# Karan Pratap Singh

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## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

INT. MSc PHYSICS  
Jul 2015 - present

### DOON INTERNATIONAL SCHOOL

Jul 2012- Jul 2014

## LINKS

GitHub:@ karannaoh  
LinkedIn:@ karannaoh  
Portfolio:@ karannaoh

## COURSEWORK

### GRADUATE

Intelligent Game Design (C#)  
Computational Methods (MATLAB)  
Programming And DataStructure (C)  
Mathematical Methods  
Machine Learning (Python)  
IEEE approved OpenCV workshop

## SKILLS

### PROGRAMMING

Proficient

• Julia • PHP • JavaScript • Python

Experienced

C++ • CSS •  $\LaTeX$  • C#

### TOOLS

• Git • GitHub • Kubernetes • Docker  
• AWS-cli

### WEB TECHNOLOGIES

• HTML & CSS • JavaScript • jQuery  
• Codeigniter • Nodejs • Flask

### OTHER

• Unity 3D • MATLAB & Octave  
• OpenCV C++ • MySQL & MongoDB

## INTERESTS

Unix, Computer Networks and  
Cryptography

## EXPERIENCE

### HACKERRANK | SOFTWARE ENGINEERING INTERN

May 2018 – Jul 2014 | Bengaluru

- Added support of Julia Lang on Brahma code generator API of HackerRank and did linting of the generated code for 19 other languages.
- Contributed in containerization of the production environment of HackerRank using multistage docker build and deployed it on kubernetes.
- **Tech-Stack** : PHP (CodeIgniter), Julia, Docker, Kubernetes, coala

### SMARTER.CODES | SOFTWARE ENGINEERING INTERN

May 2017 – Jul 2017 | Chandigarh

- Developed python app for data mining, scrape data from Wikipedia and various blogs in a very particular format which was used to scrape 100K web pages.
- Contributed in system administration, deployed various tools like Gitlab, Youtrack, Teamcity etc and configured automated regular backups.
- **Tech-Stack** : BeautifulSoup, Flask, Docker, Nginx, AWS

### RANKETHON | CHIEF TECHNOLOGY OFFICER

Oct 2015 – Nov 2017 | Kharagpur

- Led tech team of Rankethon which is one of the leading EdTech startup of India.
- Developed and deployed various websites and examination portals of Rankethon. Which are now being used by 10000+ people across India.

## COMPETITIONS

### ISRO, SMART INDIA HACKATHON | 2018

Got selected for the national level finals, successfully developed and demonstrated CBIR system for satellite images using Deep Learning

### MICROSOFT, CODE.FUN.DO | 2018

Led a team of 3 people to successfully complete a 24-hour hackathon. Created web app for news circulation and authentication in big organizations.

### IIT KHARAGPUR, GENERAL CHAMPIONSHIP OPEN SOFT | 2018

Part of the team which developed a web app for pharmacy use which can recognize medical prescriptions by doctors using Image processing and NLP.

## PROJECTS

### SPACE EXPLORATION | UNITY3D GAME

Worked under Prof Jiaul Hoque Paik to developed a game on Unity3D, simulated laws of gravitation for large planetary bodies and satellites.

### STUDENT ALUMNI MENTORSHIP PORTAL, IIT KHARAGPUR | WEB APP

Developed a web portal for alumni and students of IIT Kharagpur which is used by 2000+ users, aims to connect students and alumni of IIT Kharagpur.

## POSITION OF RESPONSIBILITY

### WEB TEAM HEAD | STUDENTS' ALUMNI CELL, IIT KHARAGPUR

Oct 2016 – Apr 2018

- Led the web team of Students' Alumni Cell in developing various portals and websites used by 10000+ students and 40000+ alumni of IIT Kharagpur.
- Made a huge contribution of over 120+ Commits on different websites and portals of Students Alumni Cell.
- Adminstrated Linux based servers, deployed applications and configured deployment automation tools on them.