

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 2018 | Bengaluru

- Integrated Julia Lang into hackerrank code generator API, which now generates code for 20 languages and used by over 5 million users of hackerrank.
- 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

- Designed and developed an algorithm to scrape 100K webpages of wikipedia and several other blogs to collect data in a particular format to train chatbots.
- Contributed in system administration, deployed various tools like Gitlab, Youtrack, Teamcity etc and configured automated regular backups.
- **Tech-Stack** : Beautiful Soup, 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.