

# Kartik Saxena

github.com/SaxenaKartik & sourcerer.io/SaxenaKartik

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## EDUCATION

- **Dual Degree in Computer Science and Engineering**

July 2016 – May 2021

National Institute of Technology Hamirpur, Himachal Pradesh, India

(B.Tech : 9.18, M.Tech : 9.9)

## EXPERIENCE

- **Mechanical Chef : Summer Internship 2019**

May 2019 - July 2019

- **Website and Backend:** Built the official **Mechanical Chef** website in Django with a MySQL backend, to automate the process of preparing any dish using the **Mechanical Chef Robot** Built a state-based simulator using MVC design pattern to test and debug the website.

- **Amazon SDE : Internship**

Jan 2021 - June 2021

- **EasyShip Seller Central Team:** Software Development Intern with the **EasyShip Team** in India which works in Seller Fulfilment Tech and provides FBA services to MFN sellers.

## SKILLS

- **Programming Languages:** Python3, C++, C, JavaScript

- **Frameworks, Tools and Technologies:** Django, Django REST Framework, Git, Github, Design Patterns, ReactJS,

GNU/Linux, LaTeX, AWS EC2, AWS Lambda, AWS S3, DynamoDB, Kinesis Stream, Selenium Webdriver, MySQL, Ngrok

- **Competitive Programming:** Leetcode, Codeforces, Codechef, SPOJ, Hackerrank, Hackerearth

## PROJECTS

- **Wireless network coverage using UAV drones:** To build, deploy and manage a wireless network using **UAVs used as wireless access points** aimed at providing **urgent internet / communication facility** to the places that **lack necessary infrastructure**. Built using Django and Django REST Framework with a SQL database. Github Link : **Wireless Access Points**
- **Official Mechanical Chef Website:** An **interface between the mechanical chef robot** and the user along with backend support to maintain a profile, place orders on the robot, see the real-time status of the dish being prepared with video streaming. Also built a **simulator using the MVC design pattern** to simulate the state-based actions of the robot.
- **Poster Maker React App:** Built a single page React App for **building a customized poster** over a given layout with the details entered as fields, also having the functionality to **download the poster as JPEG, PNG and PDF**. Built using ReactJS, primarily using Hooks. Github Link : **Poster Maker**
- **Visualizing the NQUEENS problem through GUI:** A **GUI visualization of NQUEENS problem** in Python2 and C++, built using **Subprocess** and **PyGame** python library

## ACHIEVEMENTS

- **ACM-ICPC 2019:** Member of team RBTREE NODES which got a **Rank of 40** out of 159 participating teams in the Kanpur Regionals of the contest. More than 4000 participants participated in the online round. Received an Honourable Mention amongst the 159 qualifying teams. Our team secured a **Rank of 621** amongst all the 3282 participating teams in the online qualifying round and was the only qualifying team from our college in Kanpur and Indore region.
- **Codechef Snackdown 2019:** Member of team RBTREE NODES which got a **Global Rank 1** in the Online Round 1B with over 15856 teams participating

- **Model United Nations:** Participated in formal conferences like **DUMUN 2017** representing the *Delegate of Germany*, **NITH MUN 2017** representing the *Delegate of People's Republic of China*
- **WMN 2019:** Invited to the **WMN hackathon** as a part of Devfolio beta version launch, discussions and review

## CO-CURRICULAR

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- **Joint Secretary App Team NITH:** Organizing member of **Hack On Hills**. Being 2nd most registered student held Hackathon in India with about 1068 registrations on DevFolio after Hack In Out 2019. Backend Developer of various Android Apps built annually for the college fests. Organized various workshops on **Git & Github**
- **Senior Executive Member CSEC NITH:** Organizing member of CSEC's monthly programming contest **Heuristics** on hackerearth and codeforces. Conducted weekly programming meets for freshmen
- **Volunteer GLUG NITH:** Organizing member of **Software Freedom Day Celebration** in NITH for four consecutive years, aimed at promoting the use of free and open-source software.
- **Senior Editor Team SRIJAN:** Member of **English Team** in the official college magazine. Written articles on how the coding culture of our college is flourishing and giving rise to startups, hackathons and GSOC representation
- **English Club:** Member of **English Club** in NITH. Organized the first and second iteration of the Annual Literature Fest of our college **LIT AF** and various other events