Kartik Saxena

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EDUCATION

- **National Institute of Technology Hamirpur** — Himachal Pradesh, India
  Bachelor of Computer Science and Engineering; GPA: 9.03 — *Jul. 2016 – Till Date*

EXPERIENCE

- **Mechanical Chef**
  Summer Internship 2019 — *May 2019 - July 2019*
  ○ **Website**: Built the official mechanical chef website in Django with a MySQL backend, to automate the process of preapring any dish using the Mechanical Chef Robot.
  ○ **Simulator**: Built a state-based simulator using MVC design pattern to test and debug the website. The simulator worked by polling the website for any instructions given by the user.

- **Memex-Worldbrain**
  Open Source Contribution — *Jan 2019 - May 2019*
  ○ **ReactJS**: Contributed to Memex by WorldBrain, worked at **Overhauling the memex design** and modularizing the built in components for quick and easy future implementation.
  ○ **Solved Bug**: Merged a **pull request** solving a bug in the dashboard of the browser extension

SKILLS

- **Programming Languages**: Python, C++, JavaScript, Java, Assembly Programming in 8085

- **Technologies**: ReactJS, NodeJS

- **Frameworks and Tools**: Django, Git, BlueJ IDE, Netbeans IDE, MATLAB, GNU/Linux, 8085 Microprocessor toolkit

PROJECTS

- **Mechanical Chef Website**: An interface between the mechanical chef robot and the user along with backend support to maintain an profile, place orders on a robot, see realtime status of the dish being prepared with video streaming
- **NQUEENS Visualization**: A visulalization of NQUEENS problem in Python and C++, built using Subprocess python library.
- **Library Management Software**: Open source software for the use of a librarian built in Java Netbeans IDE with a backend in MySQL
- **Search Engine**: A search engine built in python as a part of **this** course on udacity

ACHIEVEMENTS

- **ACM-ICPC 2019**: Member of team RBTREE NODES which got a **Rank of 46** out of 159 participating teams in the Kanpur Regionals of the contest. More than 4000 participants participated in the online round
- **Snackdown 2019**: Member of team RBTREE NODES which got a **Global Rank 1** in the Online Round 1B with over 15856 teams participating

CO-CURRICULAR

- **App Team NITH**: Hosted the third and fourth Interation of **Hack On Hills**, the biggest hackathon on NITH. The latest interation of Hack On Hills was the 2nd most registered Hackathon in India with about 1068 registrations on DevFolio after Hack In Out 2019
- **CSEC NITH**: Hosted 21st iteration of CSEC's monthly programming contest **Heuristics** on hackerearth. Conducted regular weekly programming meets for freshmen and people willing to learn how to program
- **GLUG NITH**: Organized **Software Freedom Day** in NITH aimed at promoting the use of free and open source software, it introduces the freshmen to the world of Open Source Development followed by Linux distribution and installation fest.
- **Team SRIJAN**: Member of **English Team** in the official college magazine. Written many articles how the coding culture of our college is flourishing and giving rise to startups, hackathons and GSOC culture
- **English Club**: Member of **English Club** in NITH. Organised the first and second iteration of the Annual Literature Fest of our college **LIT AF** and various other events