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WORK EXPERIENCE

Software Engineer   **Microsoft IDC Bangalore, India**   **July 2020 - Present**

- Implemented the migration of API calls from one service to another with the concept of flighting key, pagination and lazy loading. Owing to appreciable contribution to previous team, received an exciting opportunity to be a part of the first few members of the newly established team (Microsoft Teams Graph) in IDC Bangalore.
- Implemented filtering in API based on query parsing in expression tree, took ownership of end to end tests in teams graph, added subscription support for a bunch of resources in change notifications, worked on validating models and segregating them by adding translator layers and surfacing new APIs in Teams Graph.

Software Engineer Intern   **Microsoft IDC Bangalore, India**   **June 2019 - August 2019**

- Created a standalone tool that triggers the application (MS teams) in different scenarios and generates the synthetic data. Following technologies were used while building the tool : Distributed systems, Python, Javascript, Selenium, Chrome Extension (for GUI), Postman, Azure Server, REST API, SMTP server, Database Server, Object oriented programming, Database was used to make the data persistent and multiple jobs can run at the same time.
- When the tool was put into production, Microsoft developers were able to use the chrome extension to submit a job which generated the synthetic data and a notification was sent to the concerned person using SMTP server.

EDUCATION

Indian Institute of Technology Mandi   **Himachal Pradesh, India**   **Aug 2016 – Jun 2020**

- **B.Tech in Computer Science and Engineering, CGPA: 8.38**
- **Relevant Coursework:** Advanced data structures and algorithms, Formal language and automata theory, Special topics in compiler design, Paradigms of programming, Software Design Patterns, Systems Practicum, Pattern Recognition, Deep Learning and Applications, Artificial Intelligence, Introduction to communicating distributed processes, Computer Organization, Information and Database Systems,
- **Teaching Assistant :** Programming and Data Structure Practicum, Introduction to communicating distributed processes, IC-272 Data science-3 lab.
- **Programming Club Coordinator of the institute** for the academic year 2018 - 2019.

LANGUAGES AND TECHNOLOGIES

- **Programming Languages:** C, C++, C#, Python (Most experience), Javascript, Android, Java, PHP(some experience).
- **IDEs and frameworks:** MySQL, Apache Hadoop, Kafka, Spark, Nginx, Docker, Tensorflow, Keras, Flex, JavaCC/JTB.

PROJECTS

- **Hosting student projects using docker :** Generate a script which was able to host new projects in docker containers. Docker swarm used for dynamic scaling of docker containers. Load tested using Apache JMeter.*(Docker, Load distribution)*
- **Cricket Commentary Generation :** Generated commentary of cricket video using different networks : scene segmentation, SSD, classifiers for annotating batsman and bowler name and shot played using convLSTM. *(Python, Keras, cv2)*
- **Content curation and report generation :** A software to extract user's domain specific and relevant contents from various internet sources from input keywords and merging the curated contents into one preserving its overall relevancy and the semantics.*(Google CSE, NLP, Python Flask, Text extraction, Web Scraping, Docker)*
- **SearchGuru:** Designed a webapp to scrape data dynamically from websites of different institutes (IITs). The data extracted from the websites is contact details of all the professors among all the IITs. *(MongoDB, Node JS, Express JS, Angular JS)*
- **CodeManiac** Developed an online Judge where users can code, solve, choose programming language and submit code. Website features live rank lists, users submission history and statistics showing user performance. *(PHP, MySQL, C++, HTML, CSS)*
- **Library Assistant Bot (LAB) :** The aim of the project was to help library workers in arranging returned books by scanning the book using image processing and follow the path that maps to the location of the book in the shelf. *(Raspberry, Arduino)*

AWARDS

- **ACM-ICPC 2019 :** Represented IIT Mandi at the ACM ICPC India regionals 2019 securing 27th rank in kharagpur regionals.
- **ACM-ICPC 2018 :** Secured 277th, 496th rank among 4401, 2946 teams in ICPC 2019, 2018 Online Round respectively.
- **TopCoder - Algorithm Round (IIT Mandi) :** Secured overall 11th rank in IIT Mandi.
- **Exodia Line Follower Event :** Represented IIT Mandi in Exodia 2k18 securing 1st rank in Line Follower Competition.
- **RoboGolf Event :** Secured Rank 3rd in IIT Mandi.
- **Inter IIT Sports Meet** Represented IIT Mandi in 52nd, 53rd, 54th Inter IIT Sports Meet.