Vipul Chhabra

Education

International Institute of Information Technology, HyderabadB.Tech (Honors) and MS by Research in Computer Science Engineering2019-Advisors: Prof Krishna Reddy P., Data Science and Analytics Lab, IIIT Hyderabad	9.05/10.0 2023 (Expected)
Internships and Research Projects	
 Student Devloper, Virtual Labs (An MHRD Govt. Of India initiative) o Porting of Speech Signal Processing Lab from Java Applet, PHP to JavaScript o Improving the UI and make uniform across all the labs 	January 2020
 Student Developer, Crio.Do Developed back-end for dummy food ordering app "Q-Eats" using Spring Boot Used Mulithreading to improve the performance, learnt more about scaling of the backen Containerized using Docker and delpoyed it to GCP. 	<i>Summer</i> 2019 d.
 Research Intern, IIT Ropar <i>Guide: Sudarshan Iyengar, IIT Ropar, India</i> Worked on improving the research paper in field of Knowledge building. Analyzed the Knowledge Building from collaborative platforms like StackOverflow 	Summer 2019

Open Source Contribution

Popper

- Popper is a tool for defining and **executing container-native** workflows in Docker and other container engines.
- Developed some of the important functionalities, useful for reproducing researches.

Key Academic Projects

Custom Linux Shell

Guide: Prof P.K. Reddy, IIIT Hyderabad

- Devloped unix shell using C from scratch.
- Used some of the **system calls** to implement the functionalities like ls, pinfo etc with flags.
- Implemeted tokenization of the commands, piping, i/o redirections etc. from scratch.

In-Memory Key-Value Storage

Guide: Dr. Rahul Jain, rENIAC Inc, Hyderabad

- Created In-memorey Key-Value database in C++.
- Implemented using **B-Tree** data structure for the storage of keys.
- Scaled for performing 2 Million Operation in less than 30 Sec and consuming maxmimum of 6GB of Ram.

Bulk Shopping Store

Guide: Prof Ramesh Loganathan, IIIT Hyderabad

- Created bulk shopping app created using **MERN-Stack**(Node.Js,and React, Mongo DB)
- o Implemented **REST architectural** design and created seperate portal for vendors and customers.

Technical Strengths

- Programming Languages: C/C++, Python, Bash, Java
- o Development: HTML, CSS, Flask, PHP, Bootstrap, JavaScript, Node.Js, React.
- o Others: SQL, Mongo-DB, Requests, Matplotlib, Bokeh, Selenium, PyAutoGUI, Unittest.