Vipul Chhabra

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EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD

Dual Degree(B.Tech + M.S.), Computer Science

July 2019 - Present | Hyderabad,Telangana

Cum GPA: 9.05

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,UNA

Bachelor in Technology, Information Technology

July 2017-July 2019 | (NIT Hamirpur campus), Himachal Pradesh

Cum GPA: 9.05

SWAMI VIVEKANAND PUBLIC SCHOOL, YAMUNANAGAR

All india senior school certificate examination

May 2017 | New Delhi,India

Aggregate : 93

SWAMI VIVEKANAND PUBLIC SCHOOL, YAMUNANAGAR

All india senior school certificate examination

May 2017 | New Delhi,India

Cum: GPA : 10

LINKS

GitHub:// **vipulchhabra99**
LinkedIn:// **vipul-chhabra-3a7387171**
Codechef://**Maximum Ratings : 1831**
Codeforces://**Maximum ratings : 1448**

SKILLS

PROGRAMMING LANGUAGES
• JavaScript • Python • PHP • C++ • C • Java

WEB DEVELOPMENT
• HTML • CSS • Bootstrap • NodeJS • Flask • React

DATABASE
• SQL • MongoDB

MISELLANEOUS
• Selenium WebDriver • PyAutoGUI • Requests • Tkinter • Unittest

EXPERIENCE

VIRTUAL LABS (AN MHRD GOVT. OF INDIA INITIATIVE)
Student Developer

Jan 2020 - April 2020

- Working on Porting of Speech Signal Processing Lab to JavaScript following the Principles of Agile

CRIO.DO
Student Developer

May 2019 - June 2019

- Created back-end for the food ordering app "Q-Eats" using Java Spring Boot and implemented various features and containerized using Docker.

INDIAN INSTITUTE OF TECHNOLOGY, ROPAR
Summer Research Intern

May 2019 - July 2019

- Worked as a research intern under Dr.Sudarshan Iyengar in field of Social Network, crowd-sourced knowledge building.

OPEN SOURCE CONTRIBUTIONS

POPPER

- Popper is a tool for defining and executing container-native workflows in Docker and other container engines. All my contributions can be found here

PROJECTS

CUSTOM LINUX SHELL
Custom Linux Shell Using system calls in C. Implemented basic functionalities from scratch. Also implemented the ability to create background processes with appropriate signal handling by creating child process and replacing process block

BULK SHOPPING STORE
A bulk shopping app created using MERN-Stack(Node.Js, and React, MONGO DB) and REST architectural design. Also created separate portals for the user as well as vendor

CUSTOM XV6 OS
Customized the xv6 open-source operating system, created by MIT, Customized the scheduling algorithm, and provided the option to choose the scheduling algorithm between FCFS, PBS, MLFQ by giving the name of the algorithm as a flag and also implemented few system calls.

IN-MEMORY KEY-VALUE STORAGE
In-Memory Key-Value Database created using C++. Implemented it using B-Tree and Trie. Database using Trie was much faster but was very less memory efficient while the Database created using B-Tree was a bit slower but had good memory optimization.