Mohammed Shahraaz Hussain

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EDUCATION

NIT CALICUT
B.Tech Computer Science
07/2017 - Ongoing
Calicut, Kerala
Cum. GPA: 8.4 / 10.0

LINKS

Atcoder:// Shahraaz
Codechef:// Shahraaz
Codeforces:// Shahraaz
Github:// Shahraaz
ICPCID:// H0AP81X7UN6E
LeetCode:// Shahraaz
Stopstalk:// Shahraaz
Topcoder:// Shahraazhussain

PROGRAMMING SKILLS

C • C++ • Java • Python
Javascript • HTML • CSS
NASM • MySQL • Cuda C++
Docker • Kubernetes • Knative

ACHIEVEMENTS

ICPC 2020 , pune-onsite Rank **39/130**
Atcoder Rank **193** (India) / 9801
Codechef Rank **1001** (India)/ 2.5 Lakh
Codeforces Rank **1915** (India)/ 13436
Leetcode Rank **2259** (Global) / 116630
Topcoder Rank **805** (Global)
Solved 1445 Problems from Various sites
in C++ (Stopstalk)

CO-CURRICULAR

Conducted Hack-a-Holic (CTF style
contest) for TechFest Tathva 2020
(LAMP Stack)
Competitive Programming
Football
Gym

COURSEWORK

Compiler Design
Computer Networks
Data Science
Data Structures and Algorithms
Database Management Systems
Mathematics for Machine Learning
Operating Systems
Unix Tools and Scripting

WORK EXPERIENCE

CODENATION | Software Development Engineer Intern
05/2020 - 7/2020 | WFH

- Collaborated in a team of 3 on Product Devflows which aims to make project development reusable and convenient
- Designed and Implemented a system to create Documentation of Invocable (user-made APIs) and keep them up to date by observing traffic **automatically**
- Utilized Knative to shutdown service gracefully and back up to AWS S3
- Imported features from rival products Nodered and Camel
- Exposure: Django, Nodejs, Maven, AWS, Docker, K8s, KNative etc.

POSITIONS OF RESPONSIBILITY

NITC CODECHEF CAMPUS CHAPTER | PRESIDENT
09/2019 - Present | Nit Calicut

- Organised workshops on topics related to Data Structures and Algorithms
- Curated and tested programming problems for five programming competitions
- Conducted ICPC sessions to guide coding enthusiasts

PROJECTS

GHOSITII CHAN | Python, Splinter ,Discord.py, GIT API
05/2020 - Ongoing | Discord

- Built a Multipurpose utility discord bot to solve one of the biggest problems on a diverse/multilingual chat platform aka language barrier
- The bot has a built from scratch API to fetch translate results as well as several texts sniping features with store up to 10 deleted and edited texts per channel
- The bot is operated in 711 servers with a total of 1,26,325 users in guilds as of 01/08/2020

EXPERIMENTAL OPERATING SYSTEM | xsm and expl
7/2019 – 11/2019 | Nit Calicut

- Developed a toy OS with basic features from scratch (2000 Lines of Code)
- Functionality Schedule Processes in OS, Allocate Resources, take Console Input and give Console Output, Disk Interrupt Handler, Exception Handler, Forking a process, support 16 Processes and 32 Semaphores etc
- Link: github.com/Shahraaz/ExperimentalOS-eXpOS

OUTER PLANAR GRAPH PARTITION INTO 3 CO-GRAPHS | C++
05/2019 - 07/2019 | Nit Calicut

- Improved run time of above algorithm under PhD Scholar Daphna Chacko, Nit Calicut. Wrote code to generate outerplanar graphs
- Improved running time from 10 minutes for a graph of size 30 to 15 seconds
- Pushed maximum Limit of input graph to 50 nodes(40 Seconds)
- Reference: daphna.chacko@gmail.com

TWITTER MINI | Javascript and Mysql
10/2019 - 11/2019 | Nit Calicut

- A Twitter-like web app to run concurrently using cookies and sessions
- Created Backend in javascript used local strategy to authenticate
- Designed a relational database in MySQL to integrate features such as a tweet, retweet, follow, unfollow and an option to discover new people
- Link: github.com/Shahraaz/Twitter-Mini