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

NARAYAN JUNIOR COLLAGE
Higher Secondary Education
Board TS
06/2015 - 04/2017
Hyderabad, Telangana
Score: 977 / 1000

NARAYANA HIGH SCHOOL
Secondary School Certificate
06/2014 - 05/2015 Hyderabad,
Telangana
Cum. GPA: 9.5 / 10.0

LINKS

Codeforces:// **Shahraaz**
Codechef:// **Shahraaz**
Github:// **Shahraaz**
LeetCode:// **Shahraaz**
LinkedIn:// **Shahraaz**

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Discrete Structure
Operating Systems
Computer Organisation
Data Science
Database Management Systems
Unix Tools and Scripting

SKILLS

PROGRAMMING
C • C++ • Java
Python • Javascript • HTML • CSS
NASM • MySQL
Cuda C++ • Verilog
JavaScript Libraries
express • ejs • passport

HOBBIES

Competitve Programming
Gym

PROJECTS

TWITTER MINI | Javascript and Mysql
10/2019 - 11/2019 | Nit Calicut
- A Twitter-like web app to run concurrently using cookies and sessions
- Backend implemented in javascript used local strategy to authenticate
- Designed a relational database in MySQL to integrate features such as tweet, retweet, follow, unfollow and an option to discover new people
- Link: github.com/Shahraaz/Twitter-Mini

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

- Designed and Implemented a toy Operating System with basic features from scrath
- Wrote Code to Schedule Processes in Operating System, Allocate Resources, take Console Input and give Console Output, Disk Interrupt Handler, Exception Handler ans Forking a process
- OS was made to support 16 Processes and 32 Semaphores
- Link: github.com/Shahraaz/ExperimentalOS-eXpOS

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

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

FIREWALL LOGIN MANAGER WITH VERSION CONTROL TOOLS FOR COMPETITIVE PROGRAMMING | Bash and Python
05/2019 - Ongoing | Nit Calicut

- Tools Designed to Automate Version Control, Login and Logout from Institute Firewall.
- Saves the need to enter the password for institute firewall every time.
- Ensures that you are not Blocked out of Firewall Accidentally.
- Pushed the maximum Limit of input graph to 50 nodes(40 Seconds).
- Link: github.com/Shahraaz/Script

RISC PROCESSOR DESIGN | Verilog
07/2018 - 01/2019 | Nit Calicut

- Designed and Implemented basic 32-bit CPU from first principles in verilog
- Made Arithmetic and Logical Unit, also made Memory elements using sequential Design patterns
- Link: github.com/Shahraaz/CPUVerilog

ACHIEVEMENTS

| 2019 | top 40/130 | ACM ICPC Regionals Pune - Gwalior Regionals |
| 2019 | Honourable Mention | ACM ICPC Regionals Amritapuri Regionals |