

Mohammed Shahraaz Hussain

shahraazhussain@gmail.com | +91 889190909 | linkedin.com/in/shahraaz/

EDUCATION

NIT CALICUT

B.TECH COMPUTER SCIENCE

07/2017 - Ongoing

Calicut, Kerala

Cum. GPA: 8.4 / 10.0

NARAYAN JUNIOR COLLEGE

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 • ejbs • passport

HOBBIES

Competitive 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 scratch
- Wrote Code to Schedule Processes in Operating System, Allocate Resources, take Console Input and give Console Output, Disk Interrupt Handler, Exception Handler and 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 AND ACTIVITIES

2019 top 40/130

2019 Honourable Mention

2019 Co-Founder and Head

ACM ICPC Regionals Pune - Gwalior Regionals

ACM ICPC Regionals Amritapuri Regionals

Programming Club NITC (Codechef Campus Chapter)