T.C.S.Kiran
01-09-2018

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.SC(5YR)	IIT Kharagpur	8.69 / 10
2019	Telangana State Board of Intermediate Education	Narayana Junior College, Telangana	96.0%
2017	Secondary School Certificate	Narayana High School, Andhra Pradesh	9.8 / 10

PROJECTS

1-1 Chat app [Jun' 22 - Jul' 22]
- A full-stack web application for one to one text-based chat system for messaging
- To tackle spam users, integrated email verification feature using a signed **JWT** token with a set expiry time
- Utilized **ReactJS** for UI, **MongoDB** for backend, **Express** framework for REST APIs and **Redux** for state management
- To fix bugs early in the development phase, unit tests have been written using mocha and chai frameworks for the entire application
- As a future enhancement, features like group chat, updating profile, image, audio, video sharing capabilities, etc can be implemented. We can try to introduce WebSocket for performance upgrades

House Renting/Selling Website [Mar' 22]
- Developed a full stack web application that allows users to buy,sell or rent houses, used **ReactJS** for UI and **firebase** for backend
- Integrated features like **OAuth**(google) and token-based authentications, filtering results, etc
- Additionally integrated frequent functionalities like forgotten passwords, interactive maps, uploaded house listings, etc
- As a future enhancement, features like adding favorites, shopping cart, integrating different OAuth providers, etc can be implemented

Support Desk [Mar' 22 - Apr' 22]
- Developed a full-stack web application where users can generate tickets regarding the issue with their device
- Users can raise their concerns with the support desk staff using the ticketing module
- Leveraged **Redux** for application state management, **ReactJS** for UI, and **MongoDB** for backend
- As a future enhancement, a new portal can be created for support desk staff to actively respond to the user queries

COMPETITION/CONFERENCE

- Achieved **Global Rank 1053** among 10000+ participants in Google's annual programming contest **Kickstart** Round D held in July 2022
- Achieved **Peak Rating 1904(top 4%)** on **Codechef** with **Global Rank 172** among 2700+ participants as best rank
- Achieved **Peak Rating 1687(top 7.5%)** on **Codeforces** with **Global Rank 224** among 15000+ participants as best rank

SKILLS AND EXPERTISE

- **Programming Languages**: *Proficient* in C | C++, *Familiar* in Python | MATLAB | haskell
- **Technologies and Frameworks**: NodeJS | Redux | Mocha | Chai | Express
- **Tools and Libraries**: C++ STL | ReactJS | Git | Postman | VS Code | LTSpice

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank of **1313** among **1.1 million** students in JEE Mains, 2019
- Secured an All India Rank of **1205** among **0.17 million** students in JEE Advanced, 2019
- Selected for **ISI** B.Stat course after writing 2 exams, attending 1 interview. **One among the 60** students to get selected in whole India
- Member of the team which won **Silver** in Mathematics Olympiad event of Open IIT 2019

TRAINING

HTML, CSS, and Javascript for Web Developers | Yaakov Chaikin | Coursera [Aug' 21 - Sep' 21]
- Learned the basics of HTML, CSS, Javascript using which static/dynamic websites are made

Docker Training Course for the Absolute Beginner | KodeKloud [Jan' 22]
- Learned basics of docker such as docker image, docker-compose, docker volume, ports in docker

Computer Vision Workshop | Technology Robotix Society | IIT Kharagpur [Dec' 19]
- Implemented basics of image processing on various images like converting RGB images to grayscale, scaling, smoothing, sharpening

Machine Learning | Andrew Ng | Coursera [Jul' 20 - Aug' 20]
- Learnt basics of machine learning like linear regression, logistic regression

COURSEWORK INFORMATION

- Programming and Data Structures*
- Object - Oriented Systems Design*
- Switching and Finite Automata
- Design and Analysis of Algorithms*
- Computer Organisation and Architecture*
- Probability and Statistics
- Basic Electronics*
- Operation Research*
- Discrete Mathematics

(Courses marked with * include Laboratory Component as well)

EXTRA CURRICULAR ACTIVITIES

- Member of Maths Olympiad team in Lal Bahadur Shastri Hall of Residence
- Member of National Sports Organisation(NSO), Health and Fitness at IIT Kharagpur
- Worked as a member of the Multi-Channel Network(MCN) team at Aryabhatiya, IIT Kharagpur

!self declaration by the student