Raj Ranjan

Computer Science and Engineering (B.Tech 2018-22)

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- Github
- Linkedin
- Codechef
- Codeforces

TECHNICAL SKILLS

- **Programming Languages** C, C++, Java, Python, Javascript, Solidity, Bash, Assembly (ARM)
- **Database Management** MySQL, MongoDB, Blockchain
- **Frameworks** Node.js, Express.js, ReactJS, React Native, jQuery, Truffle, Bootstrap
- **Tools and Technologies** AWS, Google Cloud Platform, Git, Heroku (built on AWS), VS Code Editor, gcc, g++

POSITIONS OF RESPONSIBILITY

Programming Club Coordinator, IIIT Guwahati

Being 1 of the 6 coordinators, my work was to organise programming events like Competitive Programming contests, Hackathons, take sessions, webinars and maintain a healthy coding culture in the institute.

Project Lead, Technical Board Website, IIIT Guwahati

My work was to coordinate the senior and junior developers about their tasks and deadlines. Technology stack of the website includes **Node.js**, **MongoDB**, **Express.js** and **Vanila JS**. Codebase for the website is available here. Since the junior developers were beginners (mostly 1st Yearites), handling them was one of the challenges.

Subject Matter Expert (CSE), Chegg

My work was to help students in their homework qetions and doubts. Topics include questions on Programming, Operating Systems, DBMS, Data Structures and Algorithms and other computer science questions.

PROJECTS

QPidea - Books, Syllabus, Question Papers, GATE Resources

- Team of 4
- Android and Website
- Node.js, Express.js, MongoDB, Java for Android, VanillaJS

QPidea is an online repository of the above mentioned resources. It has a dedicated website and an Android application with 500+ downloads. My work was to develop REST APIs for the website and the Android application. Website can be accessed through this link and Android application with this link.

Real Estate Back Office

- Team of 4
- Website
- Node.js, Express.js, MySQL, VanillaJS

It was a college project for the DBMS course. Here we have implemented admin and super admin features for managing a Real Estate selling website like 99 Acres, MagicBricks etc. Designed frontend for few pages like Add Property, Add Agents, User Authentication etc. Integrated few frontends with database and Node.js Backend. Ensured secure login by using Cryptr Library. Codebase is available here and for the demo please click here.

Gaming Tour - Online esports organising company

- Solo
- Website
- Node.js, PayTM SDK, Express.js, MongoDB, VanillaJS

Gaming Tour is an online esports company which provides organisers and players a platform to organise and join esports tournaments like PUBG, COD, Valorant etc. Website is equiped with payment gateway to help organisers manage tournaments in a hassle free way. Website can be accessed through this link.

Agora Blockchain - Blockchain secured e-voting

- Solo
- Website (Blockchain)
- Node.js, ReactJS, Express.js, MongoDB, Ethereum, Solidity, web3.js

Agora is an online library for different algorithms on e-voting. Using those voting algorithms, I have developed a blockchain solution for Agora. From frontend to backend, and integrating web with blockchain, was handled by me. Codebase is available here. Demo video of this project can be accessed through this link.

Codercoin - Code, Quiz and Earn

- Team of 2
- Website
- Node.js, PayTM SDK, Express.js, MongoDB, VanillaJS

Codercoin is a platform for playing exciting 1 - 1 Matches, tournaments and much more related to coding. These matches are of two types viz. Paid and Free. Paid matches will have winning cash prizes associated with them. My work was to develop REST API and integrate fronted with the backend and API. Website can be accessed through this link.

RELEVANT COURSES UNDERTAKEN / ONGOING

- Basic programming in C
- Data Structures
- Operating System
- Computer Networks
- Formal Languages and Automata Theory
- Artificial Intelligence
- Database Management Systems
- Algorithms
- Computer Organisation
- Cloud Computing
- Theory of Computation
- Machine Learning