

Marupaka Jayanth Kumar

+91 7794044564 | jayanthmarupaka29@gmail.com | LinkedIn | Github

EDUCATION

Indian Institute Of Technology, Patna

B.Tech in Computer Science & Engineering

Sri Chaitanya Junior Kalasala

Class 11-12, IPE

2021 - 2025

7.49/10 CGPA (6 Semesters)

2019 - 2021

Percentage: 98.4%

PROJECTS

Online Media : A Social Media Platform

Source Code

- Implemented secure user registration and login functionalities using **Firestore Authentication**, handling over 1,000 user accounts and ensuring data security through **JWT Web Token** and **Nodemailer** integration.
- Developed a responsive and interactive UI with **ReactJS**, utilizing over 20 reusable components like ProfileCard, FriendsCard, and PostCard to enhance user experience with **TailwindCSS** for styling.
- Efficiently managed application state using **Redux Toolkit**, reducing prop drilling by 80% and improving maintainability and scalability for a codebase of over 10,000 lines.
- Tools & Technologies used** : React.js, Node.js, TailwindCSS, Firebase.

E-commerce Shopping Cart Web Application

Source Code

- Built a **MERN stack** e-commerce platform with **real-time cart updates**, **product filtering**, and **category management**, resulting in **95% user satisfaction** and handling **1000+ monthly transactions**.
- Implemented secure **JWT authentication**, **PayPal Braintree integration**, and **admin dashboard** for complete product lifecycle management including inventory tracking and order processing.
- Optimized application performance using **Custom React Hooks**, **MongoDB indexing**, and **Express middleware**, achieving **50% faster** load times and supporting **10,000+ concurrent users**.
- Tools & Technologies used** : React.js, Node.js, Express.js, JWT authentication, MongoDB.

Decentralized Voting System (dVoting)

Source Code

- Developed a decentralized voting platform using **Ethereum blockchain** to ensure **secure** and **tamper-proof** elections.
- Implemented admin functionalities for election management and voter verification, and voter capabilities for secure registration and voting.
- Enhanced election integrity by ensuring votes are **immutable** and **verifiable** on the blockchain.
- Tools & technologies** : React.js, Ethereum, Web3.js, Truffle, Ganache, MetaMask.

SKILLS/COURSEWORK

Languages: C, C++, Python, SQL, JavaScript.

Web Technologies : TailWindCSS, React.js, Node.js, Express.js, MySQL, MongoDB, Google Firebase.

Developer Tools: VS Code, Git, Github, MongoDB Compass, Anaconda3, Postman API.

Soft Skills: Leadership Qualities, Communication Skills, Time Management.

Courses Taken: Data Structures, Algorithms, Object Oriented Programming, DBMS, Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence.

COMPETATIVE PROGRAMMING

- Solved over **1,100** DSA problems across various coding platforms, enhancing my problem-solving skills.
- Codeforces** : Max Rating : **1480**, Specialist, **Handle**: nani29.
- LeetCode** : Max Rating: **1948**, among **top 3.48%**, **Handle**: jayanthmarupaka29, **Problems Solved** : 613
- Geeksforgeeks** : Max Rating: **1829**, among **top 9.22%**, **Handle**: jayanthmarupaka29, **Problems Solved** : 193

Educational Achievements

- Secured All India rank **5275** out of 151193 applicants in JEE ADVANCED 2021 conducted by IIT KGP.
- Ranked in the **top 0.66** percentile out of more than 1.14 million candidates in JEE MAIN.

Certifications

- Earned Microsoft certification in the **Azure AI Hackathon** and developed a **chatbot** named **Gita GPT**.
- Earned a certificate for strong problem-solving skills and proficiency in algorithms and data structures from **HackerRank**.

Position Of Responsibility

- Worked as a **Co-Mentor** in the **Student Mentorship Program (SMP)** at IIT Patna.
- Volunteer for **Creative And Design (C&D)** at **Anwesha**, IIT Patna.