

ADITYA SINGHAL

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Education

Indian Institute of Technology Dhanbad

Bachelor of Technology

July 2019 – May 2023

CGPA: 8.15/10

Skills Summary

Languages: C++, JavaScript, TypeScript, Html, Css

Libraries/Frameworks: ReactJS, Next.js, NodeJS, ExpressJS, Mongoose, Websocket, Docker

Tools: Git, Postman

Databases: MongoDB, PostgreSQL

Course Work: Data Structures and Algorithms, OOPs, Operating System, DBMS, Computer Networks

Experience

Jio Platforms Limited.

July 2023 – Present

SOFTWARE DEVELOPMENT ENGINEER

- Engineered and implemented an enterprise-level solution that successfully managed and optimized user Preference data, resulting in a 40% reduction in response time ensuring a seamless, secure, and high-performance user experience. Successfully streamlined Desired Do-Not-Disturb (DND) settings, reducing support tickets by 20%.
- Led the development and maintenance of Do-Not-Disturb (DND) and SMS services as a pivotal member of the trueConnect team at Jio. Spearheaded the creation of an advanced monitoring portal using React, Recoil, MUI, Typescript, Express, and Node, resulting in a remarkable 25% improvement in operational efficiency. Transformed user preference, consent, and complaint management, slashing manual work by 30%.
- Technologies: React, JavaScript, TypeScript, Express, Node, Elasticsearch, Kafka, MongoDB, API's, Mongoose, Tailwind, Docker.

Projects

CodeSphere | *ReactJS, ExpressJS, NodeJS, Mongoose, MongoDB, JWT, Docker, RabbitMQ, Sphere Engine.*

[Github](#)

- Led the development of a full-stack coding platform, utilizing MERN stack with Secure Code Execution using Docker and Efficient Asynchronous Communication with RabbitMQ.
- Developed and integrated user authentication features using JWT (JSON Web Tokens), ensuring secure access and data privacy for users.
- Created an intuitive admin panel with the ability to create new coding questions and add test cases.
- Leveraged Docker containerization to execute user-submitted code securely, preventing system damage and ensuring a safe environment.
- Employed RabbitMQ to handle asynchronous communication, enhancing responsiveness by 50%.
- Designed Pagination feature, enhancing website performance and user experience by efficiently handling large amounts of coding problems.

ShopEase | *ReactJS, ExpressJS, Mongoose, MongoDB, NodeJS, Redux, MaterialUI, JWT*

[Live](#) | [Github](#)

- Produced an End-to-End feature-rich E-commerce Web Application with customer-centric functionalities.
- Achieved category, price, and size-wise filtering to enhance user shopping experience.
- Completed an Admin Panel to empower admins with insights into orders, users, and product analytics.
- Utilized Redux for efficient state management of user and product data.
- Designed and integrated a secure payment gateway for seamless transactions.

Decentralized Escrow Application | *Solidity, Hardhat, EtherJs, ReactJS, Public Key Cryptography*

[Github](#)

- Streamlined smart contracts for arbiter, beneficiary, and depositor roles.
- Deployed the smart contract on test net using Hardhat and EtherJS
- Utilized public key cryptography for enhanced security and privacy
- Led end-to-end development, from smart contract coding to front-end integration.
- Enabled depositors to initiate payments, approved by the arbiter for a trustless escrow system.

Honors and Awards

- Global Rank-927 out of 29700 in Bi-weekly Contest 82.
- Solved 1000+ questions on Online Coding Platforms like Leetcode, GeeksforGeeks, HackerRanks, Interviewbit, etc.
- AIR- 7544 JEE Advanced 2019.

Competitive Programming

- Leetcode : [Aditya_IIT_DHN](#) - 600+ problems solved