

Abhay Ranjan Software Engineer

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EDUCATION

B. Tech (Computer Science and Engineering)

Heritage Institute of Technology

CGPA : 8.20

2019 – 2023

Kolkata, India

PROFESSIONAL EXPERIENCE

Systems Engineer, Tata Consultancy Services (TCS)

08/2023 – present

E-commerce Platform

Bangalore, India

- Developed and deployed a MEAN stack e-commerce platform in 7 months.
- Implemented user authentication with bcrypt (10 salt rounds) and JWT.
- Managed a product inventory of 200+ items using Mongoose.
- Set up 20+ RESTful API endpoints for frontend-backend communication.

Tech Stack: Angular, Angular Material, RxJS, Node.js, Express.js, Mongoose, MongoDB, bcrypt, JSON Web Tokens (JWT), Docker, AWS, Git, GitHub, Jasmine, Karma, Postman, Mocha, Chai, npm, Webpack.

SKILLS

Programming Languages — C/C++, Java | **Frontend Development** — Javascript, ReactJS, AngularJS | **Backend Development** — Node.js, Express.js, MongoDB | **Database** — SQL, NoSQL | **Version Control System** — Git and GitHub | **CS Fundamentals** — Data Structures, Algorithms, OOPs and DBMS, HTML, CSS | **Cloud Computing** — Amazon Web Services(AWS) | **Operating System** — Linux

PROJECTS

Real-Time Chat Application

- Created a serverless real-time chat app using AWS cloud services in 4 months.
- Used AWS AppSync (GraphQL) for real-time messaging and offline support.
- Built serverless backend with AWS Lambda and AWS API Gateway, handling 20,000+ daily API requests.
- Stored 50,000+ messages in Amazon DynamoDB with low latency.
- Integrated Amazon S3 for 10,000+ user-uploaded files.
- Increased user engagement by 35% with Amazon SNS push notifications.

Tech Stack: AWS Lambda, AWS API Gateway, AWS AppSync, Amazon Cognito, Amazon DynamoDB, Amazon S3, Amazon SNS, AWS CloudWatch, React.js, Redux, WebSockets.

Personal Finance Tracker



- Built a personal finance tracker using **React.js** and **Node.js** in 3 weeks.
- Implemented JWT authentication and MongoDB for data storage.
- Created RESTful APIs with Express.js for CRUD operations.
- Deployed on Heroku and managed version control with GitHub.

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Chart.js, Heroku, GitHub.

ACHIEVEMENTS

- Attained a **3-star** rating, with a maximum rating of **1757** on **CodeChef**.
- Solved over **300** problems on **Codeforces**.
- Successfully solved more than **500** problems on **LeetCode**.
- Earned a **6-star** rating on **HackerRank**.
- Resolved over **800** DSA problems across various other platforms.

CERTIFICATES

- HackerRank (Intermediate) 
- HackerRank (Basic) 
- PrepSat (RANK - 421 / 90678)