Darpan

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Experience

Tata Consultancy Services   *Gururgram, India*
System Engineer (Digital Associate)   *Jun 2023 – Oct 2023*

- Developed, engineered, and maintained responsive user-friendly web interfaces using **React.js,** to enhance the customer experience for banking and financial applications.
- Reduced **code redundancy by 35 percent** of the existing **Java code** and also reduced the **execution cost of the SQL query**.
- Collaborated with **cross functional teams** to provide **secure and scalable solutions**, adhering to industry **best practices and regulatory compliance**.
- **Implemented and integrated 2 processes** into a bank task life cycle management system. And also **debugged and fixes over 100 bugs**.

Geeks For Geeks   *Noida, India*
TA Intern   *Jun 2023 – Oct 2023*

- **Data Structure and Algorithms Mentor** : Resolved 1000+ students doubt with a 4.76 average rating
- **Coding Optimization Expert**: Debugged code and optimized solutions delivered.
- Tech Stack - **Data Structures, Algorithms, HTML, CSS5, JavaScript, Problem Solving, ReactJS**.

Projects

User Authentication and DataFlow App

- Developed and maintained a dynamic and responsive web application using the MERN stack **(React.JS, Node.js, Express.js, MongoDB),** ensuring seamless interaction between frontend and backend.
- Implemented secure user authentication and authorization mechanisms, using hashed passwords with **bcrypt** and cookies with **JWT and Cookie-Parser** for session management.
- Integrated middleware to handle **request validation, error handling, and authentication flows**.

Web-based spreadsheet application (Excel clone)

- Developed a web-based application using HTML, CSS and JavaScript, and implemented a directed graph algorithm for robust cycle detection.
- Tools used - **Data Structure and Algorithms ,HTML, CSS, JavaScript, React.JS, Redux, MySQL.**

Technical Skills

- **Languages:** C++(proficient), Java(beginner), JavaScript, HTML, CSS, BootStrap.
- **Frameworks:** React.js, Express.js, Node.js, Git versioning tool, Rest Api, Redux Toolkit.
- **Database:** MongoDB, MySQL.
- **Coursework:** Data Structure and Algorithms, Operating system, Object-Oriented Programming.

Achievements

- **Solved 1000+ Problem** questions on various online platforms **GeeksforGeeks, LeetCode, Interviewbit, HackerRank**.
- Cleared **TCS Codevita** and obtained a global rank of **187**.
- Secured Global rank: **734/23398** weekly contest 316 on Leetcode
- Publish a Research Paper on **Brain Tumour Detection using K-means**.

Education

Ajay Kumar Garg Engineering College   *2019 – 2023*
B.Tech in Computer Science   **8.1/10.0**

St. Joseph's Sr. Sec. School *ICSE*   *2017 - 2018*
Senior Secondary School   **87%**