

PRABHJOT SINGH

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Education

Chandigarh University

B.E. (Computer Science)

Aug 2020 - July 2024

CGPA: 8.32

Good Shepherd Public School

Class 10th and 12th

2018 - 2020

92.4%, 91%

Experience

Ecozen | Renewables and Environments

July 2024 - Present

Software Developer | Javascript, ReactJS, NodeJS, MongoDB

Bengaluru, Karnataka

- Engineered a **provisioning system** from scratch, integrating **real-time WebSockets** for **live production updates** and utilizing the **ReactFlow** library to streamline task arrangement in the production pipeline, while also automating the **resource creation process** based on predefined templates.
- Enhanced backend reliability by adding **type safety checks** through middleware, integrating with **15+ existing APIs**, and developing **30+ new APIs** for CRUD operations using the **ZOD package**, along with a custom **buildQuery function** to efficiently retrieve data from **MongoDB** based on filtering options.
- Developed **granular access control APIs** for granting and revoking **Edit and View access** to individual resources, while also implementing a **logger functionality** to track changes across **10+ APIs** for administrator visibility.

Clappia | No Code Platform

December 2023 - June 2024

Software Developer Intern | Typescript, AngularJS, NodeJS, AWS, DynamoDB

Bengaluru, Karnataka

- Engineered **backend integration of real-time web sockets**, offering users **live task progress updates** and resource copying visibility. Utilized a modular approach, **involving refactoring of a monolithic function** into smaller, reusable multiple functions, thereby enhancing platform reliability, user engagement, and code maintainability.
- Significantly enhanced user experience by **integrating MatBottomSheet and NgbModal** for seamless data visualization, and **implementing JSON and XML editor fields using the CodeMirror library**. This integration replaced the cumbersome input fields, enabling users to easily **write and validate JSON and XML code**. Additionally, these improvements were incorporated into the **REST API node and getDataFromRESTAPI field**, effectively reducing user input time and frustration.
- Enabled **state machine rerun and stoppage for workflow control**, created **reusable components for multiple fields**, and **automated charts creation upon app creation through AWS Stream resource**, enhancing application localization and providing insightful data visualization.
- Enhanced system efficiency by implementing **CRUD operations**, optimized database performance with **local storage caching**, **effectively managed DynamoDB streams**, developed and subscribed to **AWS Lambda functions**, and implemented **rate limiting** for email verification, ensuring **optimal system performance and security**.

Projects

Leetcode Custom Sheet Builder | ExpressJS, NodeJS, MongoDB, ReactJs | [SourceCode](#)

- Designed a custom LeetCode sheet builder with a tech stack comprising **React** for an interactive frontend, and **Node.js and Express.js** for a robust backend. The platform enables users to create personalized problem sheets with features like **filtering (difficulty, topics, acceptance rate)** and users can segregate problems in a sheet into custom categories.
- Implemented **authentication and token expiration** mechanisms for secure access, ensuring **type safety** checks throughout the codebase. Utilized **Mongoose** to manage and query problem data efficiently from a MongoDB database.

Photo-Gallery App | ReactJS, Tailwind | [SourceCode](#)

- Created a **dynamic image gallery** that **retrieves images asynchronously** from a server, ensuring fast and responsive loading.
- Enabled users to click on images to view them in **larger sizes** and **navigate through images** using next and previous buttons.
- Designed a clean, responsive gallery layout using HTML and CSS, optimized for various screen sizes.

Achievements

- Expert on Codeforces**: Rating **1625** with **1600+** problems solved. [\[Profile\]](#)
- Global Rank 68 and College Rank 1** in TCS Codevita Season 11. [\[Standings\]](#)
- 5-Star Coder on CodeChef**: Achieved **Global Rank 8** in **Starters 57 (Division 3)**. [\[Profile\]](#)
- Global Rank 305** in Google Kickstart Farewell Round A'23. [\[Certificate\]](#)
- Guardian Rank on LeetCode**: Solved **1000+** DSA problems (Top **1.27%** globally). [\[Profile\]](#)
- 5-Star Coder on GeeksforGeeks**: Ranked in the **Top 0.28%** of **28,520** users. [\[Profile\]](#)
- Blue Rank (1225) on AtCoder**: Positioned in the **Top 6%** globally. [\[Profile\]](#)
- Institute Rank 1 on HackerEarth**: Rating **1850** with **AIR 123**. [\[Profile\]](#)

Technical Skills

- Programming Languages**: JavaScript, TypeScript, C++
- Frameworks and Libraries**: ReactJS, AngularJS, Node.js, Express.js
- Databases**: MongoDB, DynamoDB, MySQL
- Tools and Platforms**: AWS (Lambda, DynamoDB Streams, S3), Docker, Git, WebSocket, REST APIs