

TARUN AGARWAL

Frontend Developer

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Summary

Frontend Developer with expertise in JavaScript, React.js, and Bootstrap. Experienced in developing responsive web applications, implementing interactive features, and optimizing performance to enhance user experience. Strong knowledge of Data Structures, Algorithms, OOP, and foundational Machine Learning concepts.

Skills

Programming Languages: Java, JavaScript, SQL

Frontend Technologies: Next.js, React.js, Redux, Bootstrap, HTML, CSS

Backend/Frameworks: Node.js, Express.js

Databases: MySQL, MongoDB

Tools & Services: Git, GitHub, Firebase Authentication

Coursework: Data Structures & Algorithms, Object-Oriented Programming, Basic Machine Learning

Projects

Trashure: Waste Management Platform 🌐 | *Next.js, NextAPI, MongoDB* **September 2025 – September 2025**

- Developed a web platform connecting citizens with waste collectors to streamline pickup requests.
- Implemented request creation with location, waste type, and scheduling details stored in MongoDB.
- Integrated JWT-based authentication and secure REST APIs for user access and data protection.
- Added real-time status tracking and notifications to keep users updated on pickup progress.

Personal Portfolio Website 🌐 | *React, Bootstrap, Vite* **August 2025 – August 2025**

- Build a responsive portfolio website showcasing 5 main sections with projects, skills, and achievements.
- Configured dynamic routing and reusable React components across 7 pages for consistent website navigation.
- Optimized website performance for ten device types and five major browsers, maintaining uniform display.
- Reduced build size by 30% and improved page load speed by 25% using Vite optimization.

Food Delivery Application | *React, Redux Toolkit, Firebase, Tailwind, Cloudinary* **July 2025 – July 2025**

- Designed a dual-interface platform with **Admin Portal** (management) and **User Portal** (ordering) across 12+ routes.
- Implemented secure **JWT authentication** with Firebase REST API and role-based access control.
- Designed scalable **Firestore schema** with 6+ collections for categories, recipes, orders, and users.
- Integrated **Cloudinary service** for recipe image uploads and optimized responsive UI using Tailwind CSS.

RoomLoop: Real-Time Micro-Meetup Platform 🌐 | *MERN Stack* **May 2025 – June 2025**

- Constructed a real-time messaging platform supporting 7 simultaneous rooms and over 100 active users.
- Applied JWT and bcrypt authentication across 7 structured user data models for enhanced security.
- Automated seven room categories with status transitions, reducing user scheduling conflicts by 35%.
- Created responsive Tailwind CSS interface with 20+ components updating in real time with Socket.io.

Certifications

- **Machine Learning Certification**, CloudxLab 🌐
- **Ethics in Engineering Practices & Organizational Behaviour**, NPTEL 🌐 🌐

Achievements

- Solved 200+ problems on various platforms, focusing on Data Structures & Algorithms.
- **Certificate of Appreciation** for NPTEL Discipline Star (July-December 2024) for continuous learning 🌐

Education

B.Tech. Computer Science

GLA University, Mathura

Graduated: 2025

CGPA: 8.0 / 10