

# APAR AGARWAL

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## Summary

Software Engineer with hands-on experience designing and building scalable backend and full-stack systems using Node.js, Express, MongoDB, and RESTful APIs. Strong foundation in data structures, system design fundamentals, and secure authentication mechanisms. Demonstrated ownership through production-grade projects, open-source contributions, and cloud deployments. Actively focused on building reliable, scalable, and maintainable software systems.

## Education

### Graphic Era deemed to be University, Dehradun, India

B.Tech in Computer Science & Engineering

2022 – 2026

CGPA: 8.5/10

### St. Mary's Convent School, Gajraula, India

XII (Intermediate)

Graduated 2021

Percentage: 95.4%

## Projects

### URL Shortener | Backend Web Service

[Source Code](#)

- Designed and built a backend URL shortening service using **Node.js**, **Express.js**, and **MongoDB**, following a modular **MVC architecture**.
- Implemented **JWT-based authentication**, request validation, centralized error handling, and atomic click analytics to ensure data consistency.
- Developed and deployed **RESTful APIs** on **Render** with **MongoDB Atlas**, with design considerations for scalability and maintainability.

### Library Management System | Full-Stack Web Application

[Source Code](#)

- Developed a scalable library system using **Node.js**, **Express.js**, and **PostgreSQL** following **MVC architecture**.
- Implemented **authentication**, **role-based access control**, and complete book lifecycle management features.
- Integrated responsive frontend components and integrated **REST APIs** to ensure smooth user and admin workflows.

### Kernel Canvas | Docker Management Platform (Team Project)

[Source Code](#)

- Collaborated in a **team-based environment** to design and build a visual platform for managing **Docker containers**.
- Developed React-based dashboards to visualize container status and support container lifecycle operations.
- Improved developer productivity by simplifying container monitoring and control workflows through an intuitive UI.

## Experience

### Open Source Contributor

Oct 2025

Hacktoberfest 2025

Remote

- Contributed to open-source repositories with a focus on **frontend development** and code quality improvements.
- Successfully raised and merged **20+ pull requests**, collaborating with global developers and maintainers.
- Participated in design discussions, addressed review feedback, and improved code quality through iterative refactoring.

## Technical Skills

**Languages:** JavaScript, C++, Python

**Backend:** Node.js, Express.js, Flask, REST APIs

**Frontend:** React, HTML5, CSS3, Tailwind CSS, Bootstrap, Material UI

**Databases:** MySQL, PostgreSQL, MongoDB

**Tools & Platforms:** Git, GitHub, Docker, Postman, Flutter, Figma, VS Code

**Engineering Practices:** Agile, Version Control, Code Reviews, API Design

## Certifications

**Foundations of Cybersecurity** — Google (Coursera)

**React Basics** — Meta (Coursera)

**HTML and CSS in Depth** — Meta (Coursera)

**Version Control** — Meta (Coursera)

## Relevant Coursework

Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Software Engineering, Web Development, Fundamentals of CyberSecurity, Distributed Systems (Foundational Concepts), UI/UX Design Principles.