

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 <i>B.Tech in Computer Science & Engineering</i>	2022 – 2026 <i>CGPA: 8.5/10</i>
St. Mary's Convent School, Gajraula, India <i>XII (Intermediate)</i>	Graduated 2021 <i>Percentage: 95.4%</i>

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 [Source Code](#) **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.