

# Arnav Agarwal

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## Education

- SRM Institute of Science and Technology — B.Tech, Computer Science and Engineering , 2022 - 2026 , **CGPA - 9.86**
- MDS Public School, Udaipur — CBSE 12th Boards - **93%**
- Jawahar Navodaya Vidyalaya (JNV) , Bhilwara — CBSE 10th Boards - **93.20%**

## Skills

**Strengths:** Full Stack Web Development , Problem Solving (DSA) , Analytical Skills , Logical Reasoning  
**Technologies/Frameworks:** NodeJS , ExpressJS , NextJS , MongoDB , RESTful APIs , Geocoding , ReactJS , Redux  
**Languages:** C++ , C , JavaScript , Python , Java , HTML , CSS , SQL , NoSQL  
**Coursework:** Object Oriented Programming, OS, Database Management, Computer Networks, Algorithm Development, ML

## Projects

### MyCamp - Full-Stack Web Development Project — GitHub — Website

- Created a full-stack app for users to manage campground listings with CRUD functionalities.
- Implemented authentication and authorization using Passport.js for secure user sessions.
- Integrated Mapbox API for geocoding, allowing users to explore campground locations on an interactive map.
- Built with Node.js, Express.js, MongoDB, and EJS for dynamic templating and a seamless user experience.

### LinkLite - URL Shortener Website — GitHub

- Developed a URL shortener with an interactive UI displaying original and shortened URLs.
- Enabled one-click copying and deletion of shortened URLs for user convenience.
- Built using Node.js, Express.js, MongoDB, React.js, and Context API for session management.

### Two-Factor Authentication System — GitHub — Website

- Implemented a complete two-factor authentication system using TOTP with bcrypt for secure password hashing.
- Utilized Node.js, Express.js, React.js, and Speakeasy for robust backend and frontend development.
- Enabled users to set up two-factor authentication through a simple interface with QR code support.
- Enforced authentication during logins, redirecting unauthenticated users back to the login page.

## Experience

### Samsung PRISM R&D Internship — Certificate — Dashboard

- Researched deep cache implementation in Stable Diffusion models using multiple research papers.
- Focused on optimizing deep learning workflows through advanced caching mechanisms.

### Official Project for SRM IST - Placement Issue Management Website (Under Development) — GitHub

- Developing a website for students to post placement queries, allowing admins to monitor and resolve issues.
- Implemented features for downloading query data in Excel format for easy tracking by placement coordinators.

## Achievements

### JEE Mains and JEE Advanced — Link

- Scored 96.85 percentile in JEE Mains 2021 and successfully cleared JEE Advanced with strong results.
- Demonstrated strong problem-solving skills and perseverance to achieve competitive exam results.

### Runner-up - HackRush 1.0 Hackathon — Link

- Developed "Kisan Seva" website under the Agricultural Domain to support farmers in earning better revenue.
- Aimed at improving farmers' financial conditions by providing tools and resources for better market access.

### Problem Solving — Leetcode — GeeksforGeeks

- Solved 250+ DSA coding problems across platforms, improving problem-solving and algorithmic skills.
- Gained expertise in Data Structures by solving complex problems, demonstrating the ability to think abstractly.

## Certifications

- Design and Analysis of Algorithms, NPTEL (**Course Topper 5%**) — [Link](#)
- UDEMY - Full Stack Web Development by Colt Steele — [Link](#)
- Programming in Java - NPTEL — [Link](#)
- COURSERA - Machine Learning: Regression and Classification — [Link](#)