

# Gaurav Singh

+917055127777 | [gauravsingh65440@gmail.com](mailto:gauravsingh65440@gmail.com) | [LinkedIn](#) | [LeetCode](#) | [GitHub](#) | [Personal Website](#)

## Education

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Amity University

Bachelors of Computer Application (BCA)

CGPA: 8.65

Noida, UP, India

July 2021 – July 2024

## Skills

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**Languages:** C++, HTML/CSS, JavaScript, SQL

**Frameworks/Libraries:** Tailwind CSS, React.js, Redux Toolkit

**Backend:** Node.js, Express.js, Mongoose ODM

**Databases:** MySQL, MongoDB

**Developer Tools:** Git, GitHub, VS Code

**Certifications:** Data Structures and Algorithms by Udemy [ [Link](#) ]

**Soft Skills:** Problem-Solving, Critical-thinking, Adaptability, Communication, Teamwork

## Projects

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**URL Shortener** [ [GitHub](#) ] [ [Live Link](#) ] - *MongoDB, Express.js, React.js, Node.js, and Tailwind CSS.*

- Built a scalable URL shortener using the **MERN stack** (MongoDB, Express.js, React.js, and Node.js) to simplify **long URLs** for easy sharing.
- Integrated **RESTful API** for URL shortening, user management, and analytics. Optimized database queries to **reduce latency by ~30%**.
- It features secure **JWT authentication** with **2-step OTP email verification** for security. Implemented a **rate limiter** to restrict users to **50 API requests per hour**, preventing abuse and improving security.
- Users operate in private environments, managing their shortened URLs, with additional functionality like **click tracking** for analytics and seamless short URL redirection.
- The backend uses **Mongoose ODM** for defining and managing schemas, and is configured with **CORS (Cross-Origin Resource Sharing)** to enable secure API access. The frontend is styled with **Tailwind CSS** for a responsive design and uses **Axios** for efficient HTTP requests.

**Amazon Clone** [ [GitHub](#) ] [ [Live Link](#) ] - *React.js, Tailwind CSS, Redux Toolkit and Firebase.*

- Developed a **fully responsive** Amazon Clone using **React.js** and **Tailwind CSS**, achieving a **40% reduction** in **page load time**. Integrated **Firebase** for secure user authentication, ensuring **99.9% uptime**. Utilized **Redux Toolkit** for state management, enhancing cart operation efficiency by **30%**.

**Sorting Visualizer** [ [GitHub](#) ] [ [Live Link](#) ] – *HTML, CSS, and JavaScript.*

- Created a **Sorting Visualizer** project to visually demonstrate how various **sorting algorithms** work, including **Bubble Sort**, **Selection Sort**, **Insertion Sort**, **Merge Sort**, **Quick Sort**, and **Heap Sort**. This project offers an interactive way to understand how sorting algorithms works.

## Achievements

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- Solved **760 problems** (246 Easy, 415 Medium, 99 Hard) on LeetCode and earned badges like **500 Days Streak**, **Annual Badge 2024**, and more.
- Consistently solved DSA problems on LeetCode for over a year, earning **6000 LeetCoins** and a **LeetCode t-shirt**.