

# Gaurav Singh

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## 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](#) ] [ [Demo](#) ]

- A **full-featured URL shortener** built with the **MERN stack** (MongoDB, Express.js, React.js, and Node.js) to simplify **long URLs** for easy sharing.
- The application integrates a **RESTful API** to handle URL shortening, user management, and analytics efficiently.
- It features secure **JWT authentication** for user login, logout, registration, and account deletion. 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**.
- **Technologies:** MongoDB, Express.js, React.js, Node.js (MERN), Tailwind CSS

### Amazon Clone [ [GitHub](#) ] [ [Live Link](#) ]

- Built an **Amazon Clone** replicating core features of an **e-commerce platform**, including **user authentication**, **responsive UI**, and **cart management**. Developed using **React.js** for a dynamic frontend and **Tailwind CSS** to ensure a responsive user interface across devices. **Redux Toolkit** is used for efficient **state management**, particularly for cart management (adding/removing products). Integrated **Firebase** for hosting and secure user authentication.
- **Technologies:** React.js, Tailwind CSS, Redux Toolkit and Firebase

### Sorting Visualizer [ [GitHub](#) ] [ [Live Link](#) ]

- 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**. The project was built using **HTML**, **CSS**, and **JavaScript**, this project offers an interactive way to understand how sorting algorithms works.
- **Technologies:** HTML/CSS and JavaScript