

# Ujjwal Silwal

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## Skills

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**Languages:** C/C++, Java, Python, JavaScript, TypeScript, ReactJS/NextJS, NodeJS, SQL, Tailwind-CSS, PHP, HTML5/CSS3, ES6

**Technologies & Tools:** MongoDB, MERN, Docker, React, Node, Rest APIs, Laravel, React-Native, Django, MySQL workbench, Postman, Android Studio, Git/Github, Anaconda, Jupyter-Notebook, Xampp, Chat-GPT, Machine Learning

## Work Experience

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**Crescent Academy, Lalitpur** Aug 2022 - Present *Math Tutition Teacher*

- Provided one-on-one and group tutoring sessions for Class 10 students, focusing on enhancing their understanding of mathematical concepts and improving their problem-solving skills

## Education

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**Citizen College, Kumaripati, Lalitpur**

2021 - 2025

B.C.A. in Computer Science and Technology

(5th sem) **CGPA: 3.5**

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Data Structures and Algorithms, Computer Graphics and Multimedia, Web Technologies, Statistics

**DAV College, Jawalakhel, Lalitpur**

2018 - 2020

Business Studies (+2)

**CGPA: 3.28**

## Project Work

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- **Bike Rental System (BCA 4th sem.):** Developed using PHP, MySQL, HTML, and CSS. The back-end, powered by PHP and MySQL, handles user authentication, bike availability, and reservation management, ensuring data integrity and efficient operations. This system allows users to browse available bikes, make reservations, and manage rentals seamlessly.
- **Book Recommendation System (BCA 6th sem.):** This project harnesses machine learning techniques, particularly user-based collaborative filtering, and cosine similarity, to deliver personalized book recommendations. Utilizing Django as the web framework, the system processes extensive book, book user, and book rating datasets to analyze user preferences and behaviors.

<https://github.com/UjjwalSilwal/Book-Recommender-System-using-User-based-Collaborative-Filtering>

- **E-commerce project (2024-currently):** A dynamic web application built using the MERN stack (MongoDB, Express, React, Node.js) with Tailwind CSS for styling. MongoDB serves as the database to store product details, user information, and order history. JWT (JSON Web Tokens) ensures secure user authentication and authorization, The project utilizes API Slice for Efficient state management and data fetching and a well-structured routing system. [https://github.com/UjjwalSilwal/E\\_Commerce-Project](https://github.com/UjjwalSilwal/E_Commerce-Project)

- **Laravel ToDo App. (2024):** Built using the Laravel framework, leveraging PHP, Blade, JS, MySQL, and XAMPP for the comprehensive environment. This application allows users to perform CRUD operations to manage their tasks effectively. Laravel provides a robust backend infrastructure, while Blade templating enhances the front-end experience. JS adds interactivity, and MySQL handles data storage efficiently. <https://github.com/UjjwalSilwal/Laravel-ToDo-App>

- **MERN ToDo App. (2024):** Developed using the MERN framework, which enables users to manage their tasks efficiently with seamless CRUD operations. React.js ensures a dynamic and responsive front-end experience, while Node.js and Express.js handle the server-side logic and API routes. MongoDB serves as the database to store user data and tasks. <https://github.com/UjjwalSilwal/ToDoApp/tree/main>

