

Utsav Jha

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Education

VIT Bhopal University

Bachelor of Technology (B.Tech), Computer Science and Engineering (CSE)

CGPA: 8.65

Oct 2022 – May 2026

Sehore, Madhya Pradesh

Work Experience

HCL Technologies Ltd. - Intern (GenAI on SAP) | Remote

Jun 2025 – Aug 2025

- Completed a learning-based internship, delivering a detailed project report on Generative AI applications in **SAP** systems, aligned with organizational objectives.
- Gained hands-on experience with **SAP Joule**, configuring AI-driven workflows that improved task automation and user interaction efficiency.
- Acquired theoretical knowledge of **ABAP SDK for AI**, exploring its integration for extending generative AI capabilities across SAP backend modules.
- Developed and tested responsive UI prototypes using **SAP UI5**, enhancing usability in internal evaluations.
- Demonstrated excellent conduct and performance while collaborating with professionals, receiving positive feedback for a collaborative approach and quick learning.

Projects

URL Shortener | MongoDB, Express.js, Node.js, React.js, Tailwind CSS

Aug 2025

- Delivered a high-performance URL shortening service with the **MERN** stack, enabling users to create, manage, and monitor custom-aliased links.
- Constructed a secure and scalable backend using **Express.js** and **MongoDB**, with robust user authentication, collision detection, and automated link expiration handling.
- Developed and exposed RESTful API endpoints for efficient URL mapping and user data management, optimizing database lookups through strategic indexing.
- Crafted an intuitive management dashboard in **React.js** and **TailwindCSS**, ensuring seamless user experience across devices.
- Deployed the application on **Render**, with scalable monitoring and link analytics for reliable performance.

NodeCRUD Engine | MongoDB, Express.js, Node.js, EJS, Tailwind CSS

May 2025

- Engineered a complete backend CRUD application using **Node.js** and **Express.js**, supporting the full user lifecycle including create, read, update, and delete operations.
- Designed and implemented an optimized **MongoDB schema** to ensure efficient handling of user records with indexing strategies.
- Implemented **EJS** for server-side rendering, enhancing SEO and improving initial load performance.
- Created responsive pages using **Tailwind CSS**, minimizing custom CSS and ensuring consistent design across components.
- Integrated robust **error handling and validation layers**, ensuring secure user data management and preventing malformed requests.

EarthMark: Eco-Score Checker for Amazon | React.js, Node.js, MongoDB, Postman

Dec 2024

- Initiated and streamlined a full-stack application to calculate eco-scores of Amazon products using **React.js**, **Node.js**, and **MongoDB**, analyzing product data for evaluation.
- Engineered and tested multiple **RESTful API endpoints** via Postman to ensure reliable frontend-backend communication.
- Developed a custom JavaScript algorithm that computes eco-scores based on diverse environmental parameters, significantly reducing manual calculation effort.
- Built a responsive **React.js** UI with adaptive layouts, ensuring consistent performance across mobile, tablet, and desktop devices.
- Advanced in the **Amazon Smbhav Hackathon** by building a functional MVP within the given timeframe.

Technical Skills

Languages: C++, C, JavaScript, SQL

Core CS: DSA, OOPs, DBMS, OS, CN

Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js), Tailwind CSS

Databases: MongoDB, MySQL, Excel

Tools: Git, GitHub, VS Code

Achievements/Certifications

Associate Database Administrator — MongoDB

May 2025

Second Round Selection — Amazon Smbhav Hackathon

Dec 2024