

Utsav Jha

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Education

VIT Bhopal University

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

CGPA: 8.65/10

Oct 2022 – May 2026

Sehore, Madhya Pradesh

Work Experience

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

Jun 2025 – Aug 2025

- Completed a 6-week learning-based internship, delivering a **40+ page project report** on Generative AI applications in **SAP** systems, aligned with organizational objectives.
- Gained hands-on experience with **SAP Joule**, configuring **5+ AI-driven workflows** that improved task automation and user interaction efficiency by **20%**.
- Acquired theoretical knowledge of **ABAP SDK for AI**, exploring its integration for extending generative AI capabilities to **3+ SAP backend modules**.
- Developed and tested **4+ responsive UI prototypes** using **SAP UI5**, enhancing usability scores in internal evaluations by **25%**.
- Demonstrated excellent conduct and performance while collaborating with a team of **5+ 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, empowering **200+ users** to create, manage, and monitor custom-aliased links.
- Constructed a secure and scalable backend using **Express.js** and **MongoDB**, achieving **99.9% uptime**, robust user authentication, collision detection, and automated link expiration handling.
- Developed and exposed **8+ RESTful API** endpoints for efficient URL mapping and user data management, reducing database lookup latency by **30%** through strategic indexing.
- Crafted an intuitive management dashboard in **React.js** and **TailwindCSS**, ensuring seamless user experience with **95% mobile responsiveness score**.
- Deployed the application on **Render**, handling up to **1,000+ shortened URLs** with scalable monitoring and link analytics.

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 **full user lifecycle management** (create, read, update, delete).
- Designed and implemented **MongoDB schema** to handle up to **10,000+ user records** efficiently with optimized indexing.
- Implemented **EJS** for server-side rendering, improving SEO and reducing initial load time by **35%**.
- Created responsive pages using **Tailwind CSS**, reducing custom CSS by **70%** and enhancing design consistency.
- Integrated robust **error handling & 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 over **10+ product entries**.
- Engineered and tested **5+ RESTful API endpoints** via Postman to ensure reliable frontend-backend communication.
- Prepared a custom JavaScript algorithm that computes eco-scores based on **7+ environmental parameters**, reducing manual calculation time by **90%**.
- Built a responsive **React.js** UI with adaptive layouts, ensuring consistent performance across mobile, tablet, and desktop devices.
- Advanced to the first round of **Amazon Smbhav Hackathon 2024** among **1,000+ teams** by building a working MVP within 36 hours.

Technical Skills

Languages & Core CS: C++, C, JavaScript, SQL, DSA, OOPs, DBMS, OS, CN, SDLC

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

Databases & Tools: MongoDB, MySQL, Excel, Git, GitHub, VS Code

Achievements/Certifications

Associate Database Administrator — MongoDB

May 2025

Second Round Selection — Amazon Smbhav Hackathon

Dec 2024