Utsav Jha

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Education

VIT Bhopal University   Oct 2022 – May 2026
Bachelor of Technology in Computer Science   *Sehore, Madhya Pradesh*
CGPA: 8.65

Work Experience

HCL Technologies Ltd. - Intern (GenAI on SAP) | *Remote*   Jun 2025 - Aug 2025
- Completed a 6-week learning-based internship focused on Generative AI applications in **SAP** systems, delivering a comprehensive project report that met organizational expectations.
- Gained hands-on experience with **SAP Joule**, SAP's generative AI copilot, for enhanced user interactions and productivity optimization.
- Acquired theoretical knowledge of **ABAP SDK** for AI and its role in integrating generative AI capabilities into SAP backend systems.
- Developed responsive user interfaces using **SAP UI5** framework, creating seamless front-end experiences for AI-powered applications.
- Demonstrated excellent conduct and performance while working under senior mentorship, demonstrating proficiency in emerging enterprise AI technologies.

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 users to create, manage, and monitor custom-aliased links.
- Constructed a secure and scalable backend using **Express.js** and **MongoDB**, featuring robust user authentication, collision detection for short codes, and automated link expiration handling.
- Developed and exposed 8+ **RESTful API** endpoints for efficient URL mapping and user data management, optimizing database lookups with strategic indexing.
- Crafted an intuitive management dashboard in **React.js** and **TailwindCSS**, ensuring a seamless and responsive user experience across all devices.

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 deployed **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.

EarthMark: Eco-Score Checker for Amazon | *React.js, Node.js, MongoDB, Postman*   Dec 2024
- Built and deployed 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 Sambhav Hackathon 2024** among **1,000+ teams** by building a working MVP within 36 hours.

Technical Skills

Languages: C++, C, JavaScript, SQL
Web Development: MERN Stack (MongoDB, Express.js, React.js, Node.js), PHP
Databases & Analytics: MongoDB, MySQL, Excel
Developer Tools: VS Code, Git, GitHub, Canva
Core CS Concepts: DSA, OOPs, DBMS, OS, CN, SDLC

Achievements/Certifications

Associate Database Administrator — MongoDB   May 2025
Second Round Selection — Amazon Smbhav Hackathon   Dec 2024