ANUJ BHUSHAN TIWARI

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EDUCATION

VIT Bhopal University, Bhopal — **B.Tech in Computer Science and Engineering**   **Sep 2022 – May 2026**
   CGPA: 9.01/10 | Bhopal, Madhya Pradesh

- **Cultivated advanced analytical and computational skills** through rigorous coursework in **computer programming, data structures, machine learning, and software engineering principles**, emphasizing problem analysis, algorithm design, and system optimization.

PROJECTS

URL Shortener: Full-Stack Link Management Web Application   **Aug 2025**

- Engineered 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.
- Delivered real-time analytics by processing 500+ link redirections with sub-200ms response times, capturing click counts, geographic data, and referrer information.
- 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.
- Deployed the frontend on Vercel and the backend service on Render, ensuring high availability and seamless integration.

EnhancifAI: An AI-powered Image Enhancer Web Application   **May 2025**

- Delivered an AI-powered image enhancement web tool using React.js and the PicWish API, supporting real-time transformations of up to 30 images/min.
- Enabled intuitive drag-and-drop uploads with interactive previews and batch processing reducing average upload time by 40% and boosting throughput by 3×.
- Abstracted API handling into a centralized error-control layer, catching 98% of runtime errors and cutting failed request retries by 75%.
- Achieved a clean, adaptive layout using Tailwind CSS with minimal DOM overhead.
- Prioritized smooth UX and asynchronous rendering for consistent responsiveness.

ShopEZ: E-commerce Grocery Delivery App   **Apr 2025**

- **Architected a full-stack grocery Website** with the help of MERN stack and TailwindCSS, enabling seamless product discovery and checkout for **20+ grocery items**.
- **Built secure login, cart synchronization**, and basic order tracking with robust backend logic, ensuring **consistent user experience across sessions**.
- **Integrated Stripe API** for real-time payments with confirmation workflows, tested with **10+ simulated transactions** to ensure reliability.
- Developed **10+ RESTful API endpoints** with Express.js and structured data models using Mongoose for efficient product, cart, and order handling.
- **Designed a responsive UI** in React.js with mobile-first performance, achieving a **Lighthouse performance score of 90+** on mobile and desktop.
- **Modularized the codebase** for scalability and maintainability.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, TypeScript.
- **Frontend Development:** HTML, CSS (Tailwind), EJS, ReactJs ,Redux.
- **Backend Development:** NodeJs, Express.js, RESTful APIs, Postman.
- **Database Management:** MongoDB, MySQL, PL/SQL.
- **Version Control and DevOPS:** Git,Github.
- **Core Competencies:** Data Structures and Algorithms, DBMS, Object-Oriented Programming (OOP), Operating System, Computer Networking Fundamentals.

ACHIEVEMENTS / CERTIFICATIONS

MongoDB Associate Database Administrator	-----	MongoDB	-----	May 2025
2nd round selection	-----	Amazon Smbhav Hackathon	-----	Dec 2024
Cloud Computing (Silver Medal)	-----	NPTEL	-----	Apr 2024