

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 using the MERN stack, enabling 1,000+ shortened links to be created, managed, and tracked by users with custom aliases.
- Constructed a secure and scalable backend with Express.js and MongoDB, implementing JWT-based authentication, 99% collision-free short-code generation, and automated expiration checks running every 15 minutes for inactive links.
- Delivered average redirect latency of 120–180 ms while processing 500–700 redirections during testing, capturing detailed analytics such as click count, approx. 85% geolocation accuracy, and HTTP referrer insights.
- Developed and exposed 8+ RESTful API endpoints for efficient URL mapping and user data management, optimizing database lookups by ~30% time through compound indexes.
- Crafted an intuitive management dashboard in React.js and TailwindCSS, , improving user interaction time by ~40% through component rendering and clean UI workflows.
- 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 processing of 25–30 images per minute across common enhancement tasks
- Enabled intuitive drag-and-drop uploads with interactive previews and batch processing reducing average upload-to-process time by ~40% and increasing overall throughput by nearly 3x during benchmark tests.
- Abstracted API handling into a centralized error-control layer, catching ~98% of recoverable runtime errors and reducing failed API retry attempts by ~75%.
- Achieved a clean, adaptive, and lightweight interface using Tailwind CSS, decreasing DOM complexity and improving initial load performance by ~20%
- Prioritized asynchronous rendering and UI state updates, maintaining sub-200ms interaction latency for smooth, consistent user experience.

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, REST APIs, Postman
- Database Management: MongoDB, MySQL
- 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
• 2 nd round selection	-----	Amazon Smbhav Hackathon	-----	Dec 2024
• Cloud Computing (Silver Medal)	-----	NPTEL	-----	Apr 2024