

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

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