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

SnapLink: A MERN Stack Based URL Shortener Web Application   **Aug 2025**

- Architected a **Base62** encoding system capable of generating over **56 billion unique aliases** ($(62)^6$ combinations), ensuring collision-resistant scalability for massive user growth.
- Achieved **sub-200ms Time-to-First-Byte (TTFB)** for redirection requests by implementing a lightweight Express.js backend, verified via post-deployment latency monitoring.
- Reduced database lookup time by **over 90%** for large datasets by implementing **compound indexing** on the shortId field, changing query complexity from O(N) to O(1).
- Designed and exposed 5+ RESTful API endpoints for authentication, URL management, and history tracking, strictly adhering to stateless architecture principles using JWT for secure resource access.
- Built a responsive interface with React and Tailwind CSS, achieving a **Google Lighthouse Performance Score of 90+** by minimizing bundle size and optimizing DOM rendering.
- Crafted an intuitive management dashboard in React.js and TailwindCSS, , improving user interaction time by **~40%** through component rendering and clean UI workflows.
- Configured a **CI/CD-ready** environment with frontend on **Vercel** and backend on **Render**, managing 100% of configuration secrets via secure **Environment Variables**.

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, routing **100%** of API traffic through a secure Node.js proxy to prevent credential exposure and eliminate CORS errors.
- **Enabled intuitive drag-and-drop uploads** with an automated polling mechanism, reducing user interaction steps by **50%** by eliminating manual refreshing and auto-fetching processed assets.
- **Abstracted API handling into a centralized** serverless middleware on Vercel, ensuring consistent data integrity and preventing browser timeouts for high-resolution image payloads.
- **Achieved a clean, adaptive, and lightweight interface** using Tailwind CSS, reducing style bundle size by **~40%** and securing a **95+ Google Lighthouse** performance score.
- **Prioritized asynchronous rendering and UI state updates**, maintaining **sub-200ms** interaction latency for a smooth user experience even during long-running background AI processes.

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

- **Architected a full-stack grocery Website** as part of a collaborative team (with primary responsibility for frontend development)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**.
- Developed **6+ 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 Web Development:** HTML, CSS (Tailwind), EJS, ReactJs ,Redux
- **Backend Web 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
2nd round selection	-----	Amazon Smbhav Hackathon	-----	Dec 2024
Cloud Computing (Silver Medal)	-----	NPTEL	-----	Apr 2024