Anand Singh Tomar

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EDUCATION

Indore Institute of Science and Technology Oct. 2022 – May 2026
Bachelor of Technology in Computer Science and Engineering Indore, India

Govt Excellence Higher Secondary School 2019 – 2021
Higher Secondary Education Mhow, India

EXPERIENCE

Fincoopers Tech India Private Ltd May 2025 – Aug. 2025
Full Stack Developer Indore, India

- Worked on developing and enhancing web applications using React and Node.js.
- Contributed to both front-end and back-end development, ensuring seamless user experience and efficient data management.

Expelee Aug. 2025 – Sep. 2025
Full Stack Developer Intern Dubai (Remote)

- Assisted in building and improving web applications using React and Node.js.
- Contributed to both front-end and back-end development for better user experience and efficient data handling.

PROJECTS

Anchor Enterprise Console - SupplyChain Management and Analytics Platform

- **Tech Stack**: React, Java, Python, Nestjs, TypeScript, Docker, Kubernetes, Helmcharts, gRPC, Apache Kafka, Keycloak, Solana, PostgreSQL, OpenSearch
- Architected a scalable microservices ecosystem on Kubernetes to anchor enterprise data verifications onto blockchain ledgers.
- Implemented an event-driven architecture using Apache Kafka and gRPC to decouple high-throughput ingestion from processing.
- Designed a CQRS query layer by asynchronously indexing multi-chain proofs (Solana, Substrate) into OpenSearch for real-time analytics.
- Secured the platform using Keycloak (OIDC) and implemented Vercel Rewrites to proxy traffic securely to the internal K8s cluster.

Blockchain Enabled AI Disease Prediction System

- **Tech Stack**: HTML, CSS, JavaScript, Solidity, Flask, Node.js, Express.js, MongoDB, LangChain, Metamask, AWS
- Developed a decentralized platform leveraging blockchain technology to secure sensitive medical data.
- Integrated machine learning algorithms for accurate disease prediction and analytics.

ShopEase Ecommerce Website

- **Tech Stack**: React.js, Redux Toolkit, Node.js, Express.js, MongoDB, PostgreSQL, GraphQL, Redis, Kafka, AWS
- Architected a full-stack e-commerce platform using PostgreSQL, MongoDB, Redis, and Cloudinary, exposed via GraphQL and REST APIs.
- Implemented secure authentication with JWT, Firebase (Google Sign-In), and OAuth2 (Passport.js).
- Integrated Razorpay payments with persistent orders and Kafka-driven FCM for real-time alerts.
- Enabled advanced cart management via Redux for seamless user experience.

Deep Finance Research Agent - AI-Powered Financial Analysis Platform

- **Tech Stack**: Python, FastAPI, React, TypeScript, Redis, Google Gemini AI, Docker, Server-Sent Events (SSE)
- Developed a full-stack financial research assistant integrating **Google Gemini** to generate real-time investment insights and comprehensive market reports.
- Engineered a real-time streaming architecture using **Server-Sent Events (SSE)** and **Redis Pub/Sub**, reducing perceived latency by delivering token-by-token AI responses.
- Architected an asynchronous background worker system to decouple heavy LLM processing from the main **FastAPI** thread, ensuring high availability.
- Built a resilient **React** frontend with optimized state hydration logic to synchronize complex chat history and "thinking steps" across sessions without data loss.

ZK-GovWatch - Decentralized Whistleblower Platform

- **Tech Stack**: Next.js 15, TypeScript, Solidity, SnarkJS, Semaphore, IPFS, Tailwind CSS, Framer Motion
- Developed a privacy-first dApp using **Zero-Knowledge Proofs (Semaphore)** to verify organizational membership without revealing individual identity.
- Architected a **Gasless Relayer** system to submit transactions via a proxy server, decoupling user wallets from on-chain history for 100% anonymity.
- Implemented **Client-Side End-to-End Encryption** for securing evidence on IPFS and a Hash-Lock Vault mechanism for anonymous ETH reward withdrawals.
- Designed a modern, responsive UI with a Bento-grid layout and complex animations using **Framer Motion**.

SKILLS

Languages : C, C++, Java, JavaScript (ES6+), Python, Rust, Solidity, TypeScript

Frontend : React.js, Redux Toolkit, Tailwind CSS, HTML/CSS, Next.js

Backend : Node.js, Express.js, Flask, FastAPI, Springboot, Nestjs, Smart Contracts

Databases : MongoDB, PostgreSQL, MySQL, GraphQL, Redis, Firebase

AI Development : LangChain, LangGraph, RAG, GenAI, AI API Integration, N8N

DevOps & Tools : Docker, Kubernetes, Jenkins, Terraform, AWS, Git, GitHub, Postman, Vercel, ArgoCD

ACHIEVEMENTS

Solved 250+ Coding Problems on various platforms like LeetCode, CodeChef, GFG, Codeforces.

Won 1st position in College level Quiz competition.

CERTIFICATIONS

AWS Cloud Practitioner Essentials (Edx)

Intro to Cyber Security Specialization (Coursera)

Ethical Hacking Essentials (EC Council)

Blockchain and Cryptocurrency Explained (Coursera)

Cisco Certified Network Associate (NetAcad)