

Kolkata  
6266754858

# Anuj Verma

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## Experience

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**Software Developer Intern**

**TCG Digital Solutions**

**May 2023 – July 2023**

Kolkata

- Designed a Web App to streamline the creation of CRUD Web Apps & Dockerfiles, simplifying the process through user-provided app specs.
- Crafted a versatile JSON Editor tool that handled JSON parsing & validation, empowering users to effortlessly generate web app using NPM.
- Effortlessly integrated CSV file upload, enabling users to populate their generated web apps through a user-friendly ReactJS and MaterialUI.
- Developed a robust NodeJs-MongoDB backend, handling user accounts, user-generated apps and coordinating app generation and storage.
- Developed frontend UI using the Ezextend screens framework by TCG Digitals in mcube server, utilizing backend APIs for data integration.

**Consultant**

**TCG Digital Solutions**

**Sep 2024 – Present**

Kolkata

- Developed an alert notification system using WhatsApp Cloud API as a microservice.
- Implemented a Python script for handwritten form recognition using LLM Whisperer and Google Cloud Vision API.
- Designed a data streaming pipeline for live camera feeds with AI model integration for violation detection using Kafka, Redis, and proprietary event exchange software.
- Built a web service for displaying live camera feeds and detected violations, integrating authentication and role-based access control using React, FastAPI, and WebSockets.
- Containerized services using Docker for modularity and enhanced collaboration among developers.
- Managed SQL database operations with MariaDB and SQLAlchemy for efficient violation tracking and server integration.

## Projects

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- **Code-Search | Algozenith Hackathon** (<https://codesearch-by-oxone.netlify.app/>) Built a MERN stack app enabling users to quickly access coding questions by query. Scraped 13,000+ questions from LeetCode, Codeforces, and CodeChef using BeautifulSoup and Selenium. Enhanced query matching with a TF-IDF algorithm for tailored recommendations. React Js, Node js, Javascript, Python, Selenium
- **Chrome Extension | Project by Algozenith** Developed a Chrome extension using JavaScript to streamline programming practice by integrating with the Algozenith platform. Enabled bookmarking of coding problems for easy access and leveraged advanced JavaScript techniques like promises and async/await for efficient asynchronous task handling.

## Skills

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- C, C++, C#, Python, JavaScript, React.js, FastAPI, Express.js, Node.js, Kafka, Redis, MariaDB:

## Education

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**Kharagpur**

**IIT Kharagpur**

**Aug 2019 | May 2024**

- M.Tech in Mining Engineering. GPA: 8.13

