

Manan Bansal

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[Codeforces](#) | [Leetcode \(1500+ questions\)](#) | [Github](#) | [Linkedin](#)

EXPERIENCE

CHAKR INNOVATIONS Software Developer

July 2024 – Feb 2025 | Gurgaon, India

- Designed and Developed a dynamic task request form in React with validations, **reducing errors by 15%**. Created **DRF APIs** for automated task assignment, real-time notifications, and role-based permissions, managing **50 + tasks per week**.
- Built an experiment portal where owners can **create experiments** with form validations where stakeholders can assign **POCs**, manage approvals, and use a voting system, streamlining collaboration and decision-making.
- Automated experiment tracking with complex workflows and real-time status updates using **Microsoft Authentication Library (MSAL) and email notifications**, enhancing process efficiency.
- Created **interactive analytical dashboards** for tasks, feedback and comments with advanced filtering, **improving transparency and user engagement by 25%**.
- Implemented an iterative analysis process for **anode grains**, enhanced with image correction tools using canvas for adjustments in lightness, contrast, and opacity, along with an admin approval system for final validation.
- Tech Stack Used: Python, Django Rest Framework, PostgreSQL, React JS, MongoDB, MSAL**

COMELY ENTERPRISES Member of Technical Staff

July 2023 – Aug 2023 | New Delhi, India

- Developed four **live 2D arcade games** using **Phaser.js**, incorporating interactive elements, **advanced logic**, and physics mechanics.
- Haloplay.co** : Designed a responsive game website, ensuring responsiveness with the use of **Bootstrap and JavaScript**.

PROJECTS

GPTMAPPER

Node JS, OpenHermes LLM API, JSON, Bootstrap, Axios, Express JS, D3 JS, Base64 Image, Puppeteer

- Structured **frontend using React JS** integrating with the **custom API created using Node JS, Express JS, and Axios**.
- Implemented **data cleaning and processing** methods to refine Open Source LLM responses improving **accuracy by 20%**.
- Integrated D3.js** to transform the **JSON data into visually appealing roadmaps**.

E-COMMERCE WEB CRAWLER

Node.js, Puppeteer, Cheerio, JavaScript, p-limit

- Engineered a fully configurable web crawler that extracted **1.8M+ product URLs** from **Flipkart** and additional listings from **Nykaa, TataCliq, Westside, and Virgio**.
- Used **depth-based BFS traversal** on HTML, waiting for specific tags to ensure complete data extraction.
- Integrated **headful fallback mode** for edge-case handling and debugging, with modular support for **site-specific configurations**.
- Used **p-limit** to manage **concurrency** efficiently, improving crawl speed while preventing rate-limiting and browser overload.

SKILLS

Programming :C++, Javascript, Python

Web Application Development: Django Rest Framework, Node JS, Express JS, MongoDB, PostgreSQL, Tailwind, React JS

Others: Git, Github, Agile Methodologies, MVC Architecture, Figma, Design Patterns, Object Oriented Programming, System Design, Unix/Linux

ACHIEVEMENTS

- Earned Honorable Mention at **ICPC Kanpur 2021-2022**.
- Generated over 29,000 visits by creating a high-traffic website.
- EXPERT (Top 0.028%)** on Codeforces(1612 Max rating).
- Code Gladiators Finalist: **Rank 381**
- Ranked **1 and Rank 9** Codechef Long Challenge I and II.

EDUCATION

Galgotias College of Engineering and Technology 2020 - 2024

B.Tech, Information Technology, Cum. GPA: 7.66