


Arpit Patel

Software Developer
IIT Kharagpur

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Skills & Expertise

Concepts	Data Structures & Algorithms, Object Oriented Programming Systems, REST		
Languages	HTML, CSS, JavaScript, Python, SQL	Versioning	Git, GitHub, GitLab
Frameworks	Django, Django REST Framework, React.js, Three.js	Databases	PostgreSQL, Elasticsearch, Redis

Professional Experience

Siloho

July 2022 to Present

Software Developer

Backend - Designed and developed multiple features that are both scalable and optimized for performance.

1. **Search** - In addition to standard search, the feature also provides "search as you type" capability.
2. **Product Addition** - The feature automates the collection of relevant information from a product URL of a partnered vendor and saves it in the database.
3. **Similarity** - The feature retrieves a list of related products from the database and makes it available through a paginated REST API endpoint.

Frontend - Developed and optimised features that directly affect the growing userbase of the company

1. **Middleware** - In order to enhance scalability, robustness, and processing time, a lightweight version of the main product was engineered, though output accuracy may suffer as a result.

UltimateWorld

Jan 2022 to July 2022

Software Developer

Established a foundation that can be utilized to write scalable and maintainable code in the future.

- **Serializers** - Created multiple serializers for various models in the database system
- **Metaverse** - Assisted in developing a three.js based environment that allows users to experience the Metaverse in their browser itself.

Projects

Discount YouTube - HTML, CSS, JavaScript, Django

Developed a web application with multiple features similar to YouTube.

1. **Ingestor** - Created a Django cronjob that regularly retrieves video data from YouTube's public REST APIs.
2. **Index** - Automatically indexed the data stored in the database using an inverted index, enabling fast searches through the database.
3. **REST APIs** - Developed paginated APIs that allow for the ordering and filtering of data using query parameters.
4. **UI** - Designed and built the UI to support the aforementioned features.

Game Reviews - HTML, CSS, JavaScript, React, Node.js, MySQL

A web application was created that allows users to submit reviews of games or media, which are then saved to a database using node.js and MySQL.

Education

IIT Kharagpur

2016 to 2021

Dual Degree Integrated Course (B.Tech + M.Tech) in Mechanical Engineering CGPA - 7.10