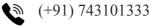
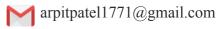
# **Arpit Patel**

## Software Developer IIT Kharagpur











### 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