

# Varun Singh

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## TECHNICAL PROFILE

Languages : Python, JavaScript, PHP, SQL, C  
Databases : MySQL, Mongo, SQLite

## PROFESSIONAL EXPERIENCE

### March 2019 to Present – Infibeam Avenues

Project : Bank Data Management  
Python Modules : Pandas, SQLAlchemy, Django, Beautiful Soup, Rest Framework

- Using web scraping to get data from RBI.
- Working with web socket (Channel 2) in Django for real-time data availability.
- Preparing data using pandas and representation of it on frontend with JavaScript and Django template tags.
- Used Rest APIs to display all transformed data in a Datatable before dumping it to MSSQL

Project : File/Data Processing  
Python Modules : Pandas, SQLAlchemy

- Transformation of the data that we get in different filetypes.
- Cleaning the data by having the desired features and labels, getting rid of NaN values.
- Automating and Scheduling the uploading process of the data to the database.
- Prepared the front end in JavaScript and PHP with the file handling.

### Nov 2016 to Feb 2019 – OXENET, India

#### Roles & Responsibilities:

- Designed the Web application Using Python on Django Web Framework pattern to make it extensible and flexible.
- Used the Model View controller (MVC) framework to build modular and maintainable applications.
- Used data structures like directories, tuples, object-oriented class-based inheritance features.
- Wrote and executed various MYSQL database queries from python using Python-MYSQL connector and MySQL dB package.

## Personal Projects

**Project** : Sudoku Backtracking (**Python**)

**URL** : <https://github.com/varunsingh2610/sudokuBacktracking>

- Put 9x9 sudoku puzzle in 2D array.
- With the use of recursion and backtracking algorithm it gives solution of all the puzzles.

**Project** : Price Tracker with Telegram (**Python**)

**URL** : [https://github.com/varunsingh2610/price\\_tracker\\_telegram](https://github.com/varunsingh2610/price_tracker_telegram)

- Script to track price of a product and send the price in your telegram app with if price drops.
- Used web scraping to search and send the price to telegram using its open source APIs.

**Project** : Search REST API (**Python**)

**URL** : <https://github.com/varunsingh2610/API-for-imdb-movies-search>

- Used Django REST Framework to search and filter the data from the database.
- Using the API to Create, Delete and Update the data also.
- Implemented the project on heroku.

## EDUCATIONAL PROFILE

M.Sc Computer Science from Makhanlal Chaturvedi University with 70.68%.