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# Shivanand Pradhan

## Software Engineer

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I am a Computer Science graduate with decent problem solving skills, I am quite proficient in Data Structures and Algorithms and CS fundamentals i.e Database design, Operating systems. I am willing to take any responsibility and won't miss any opportunity to grow and learn new things.

### SKILLS

<b>Tools and Languages</b>	Python, C++, Java, JavaScript, Linux
<b>Databases</b>	MySQL, MongoDB, SQL
<b>Frameworks</b>	Django, React, Express, Node, Pandas
<b>Communication</b>	English, Hindi

### TECHNICAL EXPERIENCE

#### Undergraduate Trainee / CyberSecurity and Networking

Jan 2020 — Feb 2020

ALTTC BSNL

Ghaziabad, Uttar Pradesh

- Implemented various ciphers from scratch that include basic Caesarian Cipher, Hill Cipher and PlayFair Cipher
- Implemented WebSockets in Python and build a chatroom application
- Got familiar with Cisco packet tracer and various routing paradigms.

#### Frontend Developer

May 2021

Seven consultants and Technology Pvt Ltd.

WFH

- Designed UIs of various websites in HTML and CSS and made them interactive using javascript.
- Deployed them using Webhost platform.

### EDUCATION

**B.Tech CSE**, National Institute of Technology Srinagar (8.63/10)

2018-2022

**High school Class XII**, JKBOSE 95%

2018

**Class X** JKBOSE 94%

2016

### ACTIVITIES

Attained a max-rating of 1812 on codechef (4\*)

HackerRank certification (intermediate) for Java and Python.

Solved 300+ DSA problems cross platform.

Active participant of the coding club of my college (SemiColon) where in I instructed juniors regarding various OOPs and DSA concepts.

Actively participating in various Sports and tournaments of my College

### PROJECTS

#### Recommender System

March 2022-June 2022

- Implemented a Recommender System that used both Content Based Filtering and Collaborative Filtering
- For Collaborative Filtering implemented : Simple Collaborative Filtering, Matrix Factorisation, Singular Value Decomposition, Neural Collaborative Filtering
- For Content Based Filtering used Bag of words and TFIDF Vectorization to find similarity between text descriptions of the TMDB dataset.
- Used Django to display the movies with the posters being fetched via the MovieDB API

#### Particle Swarm Optimisation

March 2021

- Implemented PSO to minimize a 2D function.
- Used JavaScript for visualizations.

#### REST API

Feb 2021

- It is based on product review system where only an authenticated user can perform CRUD operations of his own while admin has full permissions.

#### Unbeatable Tic-Tac-Toe

Dec 2020

- Implemented an unbeatable tic-tac-toe using minimax algorithm.
- Made the game interactive using JavaScript HTML CSS