



## Contact

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## Education

### B.Sc, P.C.M

Swami Vivekanand Subharti  
University  
March 2020 - October 2023

### 12th

C. R. B. V. M. Sr. Sec. School  
March 2018 - May 2019

## Technical Skills

Python

HTML

CSS

JavaScript

## Soft Skills

Attention to Detail

Time Management

Problem Solving

Remote work and collaboration

## Certifications

Python   
GUVI

# Karan Tanwar

## Full Stack Web Developer

## Professional Summary

Adaptable Algorithm Developer proficient in algorithm design and Python programming. Skilled in analyzing and implementing new algorithms for computational problems. Demonstrates strong problem-solving capabilities and attention to algorithmic efficiency. Collaborative team player with the ability to adapt to changing project requirements.

## Projects

### Maze Solver

[Live Demo Link](#)

[Github Repo Link](#)

Python

Implemented Breadth First Search algorithm.

- Developed an advanced terminal-based application in Python that generates random mazes and visualizes them.
- Implemented pathfinding algorithms to efficiently navigate and solve the generated mazes.
- Ensured clear and user-friendly visualization of the maze and the calculated path on the terminal.
- Focused on optimizing the maze generation process for performance and scalability.
- Conducted thorough testing and debugging to ensure the reliability and stability of the application.

### Terminal Typing Master

[Live Demo Link](#)

[Github Repo Link](#)

Python

Import OS Library

File Handling

- Developed a terminal-based typing test application to measure typing speed and metrics like words per minute (WPM).
- Implemented features to update and display a leaderboard stored in a JSON file for user rankings.
- Loaded typing words from a JSON file into a Python dictionary for efficient access during tests.
- Captured and handled user input from the terminal to implement the main game logic and ensure smooth user experience.
- Utilized Python and Import OS Library to develop and manage the application effectively.

### Using an API to Fetch the Weather of the City

[Live Demo Link](#)

[Github Repo Link](#)

Python

Using API

- Developed a Python application to fetch weather details from the OpenWeatherMap API.

- Implemented efficient API calls to retrieve real-time weather data for user-specified cities.
- Ensured accurate weather information through seamless integration with the OpenWeatherMap API.
- Conducted thorough testing and debugging to ensure the application's reliability and stability.
- Kept the application up-to-date with the latest weather APIs to enhance data accuracy.

### Social media content download

[Live Demo](#)  
[Link](#)

[Github Repo](#)  
[Link](#)

Python

Import Instaloader library.

Import PyTube library.

- Developed a Python application to fetch real-time weather data from the OpenWeatherMap API, ensuring accurate and up-to-date information.
- Implemented robust API integration to retrieve and display weather details for various cities.
- Ensured seamless data handling and error management for reliable user experience.
- Optimized code for efficient API calls and data processing, enhancing application's performance.
- Conducted thorough testing to identify and fix bugs, ensuring the application's reliability and stability.