



Contact

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📁 Portfolio

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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.