**Simerdeep Singh Grewal || Python Developer**

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**Links:** [**LinkedIn**](https://www.linkedin.com/in/simerdeep-singh-grewal/) **||** [**GitHub**](https://github.com/SimerdeepSinghGrewal) **||** [**Website**](simerdeepsinghgrewal.github.io)

**Profile Summary**

A solution-focused and self-directed Python Developer who started off his journey as Python Developer by taking an intensive python course and building real-world projects to enhance expertise in using Python to solve problems.

An individual with keen eye for quality in code and documentation, motivated by the challenge of taking on new projects, seeking a challenging Python Development position where he can apply his skills and experience. Looking to continue growing as a Python Developer with an employer who is willing to invest in his skills to get the most out of his abilities.

**Core Skills**

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| --- | --- |
| * Python | * HTML & CSS |
| * Git | * SQL |
| * Adobe Photoshop | * WordPress |
| * Microsoft Office | * AWS |
| * GCP | * Analytical Skills |

**Cloud Computing**

**Amazon Web Services**

* Accountable for migrating and reconfiguring 2 web applications from a regular hosting platform to the AWS cloud.
* 6 months hands on experience of using AWS Cloud with expertise in IAM, S3, Cloud Watch and Lambda.

**Courses**

**100 days of Code – The Complete Python Pro Bootcamp UDEMY**

* Comprehensive python course that covers all aspects of development and variety of tools and technology such as

|  |  |  |
| --- | --- | --- |
| * Python Scripting & Automation | * Pandas | * APIs |
| * Python Game Development | * NumPy | * Python GUI Desktop App Development |
| * Object Oriented Programming | * Matplotlib | * Front-End Web Development |

**Career Summary**

**Python Developer – Self Development (Portfolio) Jan 2020 – Current**

|  |  |
| --- | --- |
| * Time Machine Spotify Playlist   Using Selenium and Requests library made a program which uses billboard.com to got to an earlier date of your choice and scrape the top 100 songs of that time and then using those songs and Spotify API, searches those songs on Spotify and makes a playlist. | * Internet Speed Checker & Tweeter Using Selenium library made a program which check the speed of your internet on speedtest.net website and records the upload and download speeds and then compares those with the pre specified speeds of your service provider and if the current speed is less then it login's into your Twitter and tweets your service provider for less speed. |
| * Blog Post Website using Flask Created a website on local server using Flask library, which displays on home page the title of blog along with subtitle and for further reading, a read button which when clicked displays the full blog post on a new page. | * **Natural Language Workout Tracker** Using Requests library and natural language processing of nutritionix.com API, formatting data to feed into google sheets with the help of sheety.com API, to keep a track of workout each day. |
| * Rain Tracking Bot   With Requests library and API calls, it checks the weather of a specified location and if it’s going to rain during the mentioned time, then it will alert user with SMS about the times it will rain. | * **Flight Price Checker**   With Requests library and API’s, made a program which checks the price of flights (pre-specified locations) and if the price is below the mentioned price, then it notifies the user with email or SMS. |
| * Stock Price Tracker   Using Requests and Datetime libraries made a program which checks the closing price of last day's particular stock (provided by user) and then compares its price to the further two day's closing prices and if the stock is a particular % up/down then it takes the latest 3 news about that company and sends us SMS. | * **Amazon Price Tracker**   With Selenium library, made a bot which checks the price of a particular Amazon product and if the price is below the mentioned price then it could notify the user with email or SMS. |
| * Blackjack Game Card-based game played at casinos. Created the blackjack game solution from scratch between a player and a dealer following all rules of Blackjack | * **Automate Birthday Emails / SMS** Automated a simple task by writing a python script using pandas and smtplib to automatically send emails and text messages to friends and family on their birthday. |
| * Snake Game Using the turtle library created the classic snake game which is controlled using four directions buttons relative to the direction it is headed in. | * **Quiz Game** A Python based Quiz game which asks questions to players to which players has to reply with the correct answer. The solution keeps a count of questions answered correctly. |
| * Pong Game Using the turtle library, created a pong game where player can control a paddle in the game by using arrow keys. Players use their paddles to strike back and forth on the ball. | * **Analysing School Dataset** Using Python and libraries such as Pandas & JSON created a solution for a Reports Cards problem where the program read’s files in .csv parses them, calculates the students’ final grade and generates the report as a structured JSON file. |
| * Random Password Generator   Using Tkinter, Random & pyperclip Python libraries, created a Random Password Generator that generates a random password using the combination of letters, numbers, and special characters. | * **LinkedIn Automatic Job Application**   With Selenium library , made a bot which login’s into your LinkedIn and then searches the prespecified jobs for you and then automatically applies to those jobs. Skips already applied jobs. |

**Junior Developer – Pandasofts, Ludhiana, IN Dec 2015 – Dec 2019**

* Assisted in maintenance of web applications.
* Recommended new features and styles to improve usability
* Assisted in testing and deploying web applications.
* Created accessible and responsive user interfaces to allow visitors on desktop and mobile devices to have the functional user-experience.
* Helped project managers in defining detailed specifications for specific functionality requirements as well as analysing, designing, and encoding new applications.

**Education & Qualifications**

**Sept 2009 – Sept 2011 Punjab Technical University.**

Masters in Computer Application Grade (64.8%)

**Sept 2006 – Sept 2009 Punjab Technical University.**

Bachelors of Computer Application Grade (72.04%)