TUSHAR KUMAR

jangratushar348@gmail.com ***9354741487*** *Delhi, India*

OBJECTIVE

Aspiring Python developer with a foundational understanding of programming principles and a passion for problem-solving. Seeking an internship to gain hands-on experience and contribute to innovative projects while expanding my technical skills

EDUCATION

Guru Gobind Singh Indraprastha University (GGSIPU),Akhilesh Das Gupta Institute of Professional Studies (ADGIPS), Bachelor of Technology 2021-2025 | Delhi india

SKILLS

Python | Pandas | Django | Selenium | logging | SQL

CERTIFICATES

- **Infosys springboard HTML Certificate**

  Issued on – 27 april 2024
  Successfully completed a comprehensive course on HTML with basic and some advance concepts like Custom elements , Semantic el ements.

- **Infosys springboard CSS Certificate**

  Issued on – 3 may 2024
  Successfully completed a comprehensive course on CSS with basic and some advance concepts like Flex box , Grid , Gradient.

- **Infosys springboard Python Certificate**

  Issue on – 22 july
  Successfully completed a comprehensive course on Python with basic and some advance concepts like Pandas , Selenium.

PROJECTS

- Created a To-Do list app with a frontend using HTML, CSS, and JavaScript, integrated with a Python Django backend for data management and user authentication.
- Developed an automation project using Python, Selenium, and Pandas for data extraction and processing, with robust error handling and monitoring implemented via logging.
- Developed an eCommerce website using HTML, CSS, and JavaScript, featuring a responsive design, product listings, shopping cart, and secure payment integration for a seamless shopping experience.

1. Web Scraper Tool
A web scraper is a Python-based application that automatically extracts data from websites. This project involves writing a script to send requests to web pages and parse the HTML content to retrieve information like product details, prices, news articles, or social media posts.

This is a valuable project for your CV, whether you are aiming for a job in tech, analytics, or any industry that values data-driven decision-making.

Scraping tools are used across industries for data collection, market research, lead generation, and competitive analysis. Web scraping requires a range of skills, including understanding HTML and CSS and working with APIs and libraries such as BeautifulSoup or Scrapy in Python.

Data.world has several open web scraping datasets you can practice on. If you need help getting started, here is a tutorial on building a web scraper from scratch.

2. Chatbot With NLP
Chatbots are software applications designed to simulate conversations with human users. Using Python and NLP libraries like NLTK, spaCy, or TensorFlow, you can build your own chatbot to understand and process language and generate relevant responses.

A Python project to build a chatbot would involve training the program on large datasets to improve its conversation abilities. Chatbots can have basic features or be enhanced to include functionalities like sentiment analysis, answering questions, or performing specific tasks like bookings.

Chatbots are one of the most sought-after technologies in tech today, with applications in customer service, marketing, and even mental health support. This experience on your resume will show future employers that you are skilled in NLP, AI, and advanced programming. It will also demonstrate that you are abreast of current tech trends.

To start, you can use this resource to build your first chatbot. Microsoft has a great database to practice on, the WikiQA Corpus, which utilizes Bing query logs and Wikipedia pages as sources.

3. Automated Email Sender
This application can be built using Python to automate the task of sending emails, especially for campaigns or repetitive email tasks. You could use the PyAutoMail library, which has libraries like MIME, for more advanced features.

Showcasing this project is valuable as it demonstrates skills in automation, working with email protocols, and integrating with other services or databases, which are highly valued in most communication and marketing industries.

For a helpful tutorial, you can refer to the PyAutoMail repository on GitHub.

4. GUI (Graphical User Interface)
A Graphical User Interface (GUI) is the graphic that the user of a product interacts with when they open an application. This project involves creating an application with a visual interface, including buttons, text fields, labels, and various other interactive elements. Python offers several libraries for GUI development, such as Tkinter, PyQt, or Kivy, each with its unique features.

As a developer, your ability to build applications with user intent in mind while showcasing skills in design, event-driven programming, and cross-platform development is hugely important. Such projects indicate an understanding of user experience and the ability to translate product offerings in an accessible way to non-technical users.

You can practice from various projects in this repository.

5. Website
Building a website involves creating a web application with a backend (server-side logic) and a frontend (user interface). Python frameworks like Flask and Django are popular choices for this purpose.

Flask is more lightweight and flexible, ideal for smaller projects or microservices, whereas Django offers more built-in features, making it suitable for larger, more complex applications. You can choose the framework depending on whether you want to build a standard website or an interactive one like a time zone converter.

You'll also need to use HTML, CSS, and JavaScript to design the user interface. Finally, you can deploy it to a server through platforms like AWS or Heroku.

Web developer roles are sought-after and lucrative, so having this project is necessary if you are vying for such a role. This is a crucial skill as a developer in numerous industries as well. Get started with a Flask tutorial here.

Start with a simple project like a basic e-commerce site or portfolio website. When you are ready to handle more complex tasks, you can try something challenging, like a website that converts time zones.

6. Weather Application
This program retrieves and displays weather information from an external weather API. The tool helps users view weather data, forecasts, and other climate-related information.

You must fetch data from a weather API such as AccuWeather or OpenWeatherMap. You can use Python's requests library for this purpose. Process the API response (usually in JSON format) and display the data. For the GUI, libraries like Tkinter or PyQt can be used, as mentioned above.

For landing roles in software development, the ability to build a weather application illustrates your skill in working with external APIs, handling real-time data, and GUI development. These are invaluable skills that you will require constantly in your job.

You may refer to three repositories on this topic. Also, sign up for a free API key from a weather data provider to practice fetching and displaying weather data.

7. Game Development
If you have a passion for gaming, why not try your hand at creating games using Python? This skill is highly coveted in the gaming industry, and you can have some fun in the process, too!

You can showcase this as a transferable skill in other roles in the entertainment or education sectors where interactive content creation is valued. Having done this project will demonstrate your creativity in solving complex logical challenges and proficiency in advanced programming.

The most popular library for this purpose is Pygame, which provides functionalities for creating game elements, handling events, managing graphics, and playing sounds. You'll need to develop the logic first and then handle the design, such as graphics and sound. Refer to this Pygame tutorial to get started.

Idea: Build a classic game like Tetris or Snake.

8. Inventory Management System
Building an application designed to manage and track inventory levels, orders, sales, and deliveries has huge potential in sectors like retail, logistics, and supply chain management. The design usually involves a database to store inventory data and a user interface for data entry and reporting.

This process will involve three major steps: designing the database, building the backend logic to track and query the inventory, and creating a user interface.

Adding this project to your professional portfolio will tell your potential interviewer that you are competent in end-to-end software solutions, with Python and database management skills.

To get started, refer to [these] repositories (https://github.com/topics/inventory-management-system?l=python).