

Tushar Singh

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EDUCATION

Sophomore

Bachelors of Technology in Computer Science

KIET Group of Institutions - AKTU
Delhi-NCR

SKILLS

Languages

Python, JavaScript, C, C++,
Shell Script

Frameworks/Libraries

Django, Bootstrap, React, Flask,
FastAPI, GTK, Langchain, Typer
Tensorflow, PyQT

Tools

Git, GitHub, Postman, Docker,
Linux, HTTP protocol, TCP/IP,
UDP, OSI Model, AWS

Databases

PostgreSQL, SQLite, MongoDB,
Redis, Chroma

EXTRACURRICULARS

Core member

FOSSCU - Delhi NCR

- Organized tech events and talks for the students in college.
- Conducted talks about
- Python, Open-Source
- Responsible for community outreach and relations.

Member

FOSSCU - Delhi NCR

- Volunteered in three event conducted by the community.
- Contributed to the main website of the community.

WORK EXPERIENCE

[DayDox](#) | Internship | Django developer | Remote

Feb 2023 - March 2023

- ShastraOS is a Linux distribution that aims to put the Web3 experience into the very desktop environment.
- Developed a welcome/initial setup, and wallet integration apps for ShastraOS, using PyGObject, GTK4, and Libadwaita. All while keeping a good software design. Completed all the tasks before deadlines.
- The welcome gives a simple tour of the distro and its features; the initial setup includes making the user of desktop, language, timezone, essential package installation, and system backups.
- The wallet integration app was for integrating a web3 wallet integration into the distro for seamless user experience and transactions.
- Worked with fellow members to achieve the completion of these projects and, actively participated in regular scheduled meetings.

[Wagtail](#) | Contributor

Feb 2023 - April 2023

- Wagtail is a leading open-source Python CMS (Content Management System), it is based on Django and, therefore has its robustness.
- As a contributor, I've worked on solving some issues and contributed to their main "Wagtail" project.

[FOSSCU](#) | Core community member | Community Outreach and Relations Lead

Jan 2023 - Present

- Free and Open Source Software Community United (FOSSCU) is an open-source community, based in my college that promotes open-source culture in colleges.
- As a Sculptor, I make community plans and ensure their execution. I also maintain the discord server of the community.
- I am also an active contributor and collaborator in several of the community projects. These projects are OSSs.

PROJECTS

[Chino](#) | A terminal AI chat-bot

- A terminal AI chatbot, based on OpenAI. Using Retrieval Augmented Generation (RAG), this chatbot can learn from external documents provided by the user and can respond accordingly.
- Tech-stack:** Python, Langchain, RAG

[CFP Portal](#) | An idea submission portal

- A Universal portal where a user can submit their ideas.
- And if registered as an Organisation, the organization can review the ideas submitted by the user.
- Tech-stack:** Python, Django, PostgreSQL, Docker, JavaScript

[PyBot](#) An AI Chatbot

- An AI chatbot, created using the OpenAI API to provide AI-generated replies.
- It has the feature to save the chat history for each logged-in user.
- Tech-stack:** Python, Flask, PostgreSQL, Docker

[Portfolio website](#)

- A simple interactive portfolio website showcasing some details about me and my projects.
- Tech-stack:** Web 2.0, Bootstrap

MISCELLANEOUS

- I have been doing Python for past 3 years.
- I have good grasp over Data Structures, Algorithms and Software Architecture.
- I believe in planning before action for optimal productivity.
- I have a good affinity towards working in collaboration.