



CHRIS WILLIAMS

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EDUCATION

Manipal Institute of Technology

09 2020 – 2024

B.Tech Information Technology - CGPA - 7.48

Manipal, India

COURSEWORK / SKILLS

- | | | | |
|--------------------------------|-------------------------------------|----------------------------|---------------------------------|
| • Data Structures & Algorithms | • Embedded Systems Design | • Software Engineering | • Computer Vision |
| • Operating Systems | • Computer Networks and Simulations | • Computer Graphics | • Augmented and Virtual Reality |
| • Digital Systems Design | | • Digital Image Processing | |

EXPERIENCE

Python Developer (Backend) | [Django, Large Language Models, Vector Databases](#)

7 2023 - 8 2023

- Early engineer at an AI startup in Mumbai. Designed, developed and tested robust, scalable solutions for a query engine built on GPT-4. Implemented a user service that supports authentication. Tested and implemented various APIs and retrieval systems for efficient and robust query handling. Used Cohere Rerank APIs to optimize the search and retrieval system.

PROJECTS

GeminiGPT [🔗](#) | [Flask, Gemini API, postgresSQL](#)

1 2024

- GeminiGPT is an interactive chat application powered by Google's Gemini. This project combines the capabilities of Gemini with Flask, creating a seamless web-based interface for users to engage in conversations with the chatbot. Users can enter prompts and upload images. The application also maintains a chat history, allowing users to review past interactions.
- [GitHub Link](#)

DjangoQP [🔗](#) | [Django, Google Compute Engine](#)

7 2023

- This is a Django-based web application for searching the MIT Manipal Library for relevant question papers. The app will access the database hosted on the Google Compute Engine VM and display all matches as links.
- [GitHub Link](#)

WASBot [🔗](#) | [Python, PyCharm](#)

2 2023

- This is a Twitter bot that was created to help game developers stay up-to-date on the latest news and resources in the industry. The bot utilizes the Twitter API to post updates and the BeautifulSoup library to scrape news articles from various websites. It supports multithreading and uses multiple websites for scraping. Additionally, it uses NLP libraries to create meaningful hashtags for better outreach.
- [GitHub Link](#)

QPSearch [🔗](#) | [Python, PyCharm](#)

2 2023

- QPSearch is a tool that allows users to search for question papers on the Manipal Institute of Technology (MIT) library portal. The tool is built using Python, Selenium, and Tkinter. Uses multithreading to keep the UI responsive.
- [GitHub Link](#)

- This script uses the requests and BeautifulSoup libraries to scrape stock prices in India and displays all stocks in a certain price range. Additionally, the script uses Tkinter and threading, which adds a GUI and multithreading, leading to better response times.
- [GitHub Link](#)

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL (postgresql, OracleSQL)

Developer Tools: VS Code, PyCharm, Unreal Engine 5.0, Google Cloud Platform, Azure, Alteryx

Technologies/Frameworks: Linux Scripting (bash), Git, Django

EXTRACURRICULAR

MotoManipal

01 2022 – 08 2022

Aerodynamics Engineer

Manipal

- Designed, tested and manufactured various aerodynamics parts for an electric motorbike. **Ran CFD simulations, and used CATIA for 3D modeling and surface design.**
- 1st Place Overall in E Bike Design Challenge, an all India design challenge.
- Conducted interviews and taskphase for incoming recruits.
- Managed and organized new recruits and implemented workflow ideas, such as version control and pipelines.

Manipal Information Security Team

07 2021 – present

Managing Committee Member

Manipal

- Part of managing committee, responsible for recruitment and interviews.

MIT Gaming

10 2021 – 02 2022

Game Development Trainee - Level Design

Manipal

- Used Unreal Engine 5.0 for level design, materials and blueprints.

CERTIFICATIONS

- Microsoft Azure + GitHub
- Python for Everybody
- Python Data Structures
- AI for Everyone