Abhiroop Shome

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EDUCATION

SRM Institute of Science and Technology <div align="right">July 2019 - July 2023</div>

Bachelor of Technology in Computer Science and Engineering – 9.23 CGPA <div align="right">*Chennai, Tamil Nadu*</div>

EXPERIENCE

Backend Intern <div align="right">August 2022 – September 2022</div>

Tyroo Technologies <div align="right">*Gurugram, Haryana*</div>

- Developed a Logging system for the Teams' AWS Server Backend using **Flask**, **MongoDB**, **Python**
- Developed and implemented efficient algorithms to optimize database queries, resulting in a 30% increase in query performance.
- Collaborated with a cross-functional team to design and **build a RESTful API**, allowing seamless integration between different systems.
- Conducted thorough **testing and debugging** of backend code, identifying and fixing critical issues to ensure smooth operation of the application.
- Assisted in the **deployment and monitoring of cloud-based infrastructure**, ensuring high availability and **scalability** of the backend system.

Data Operations Intern <div align="right">January 2023 – July 2023</div>

ABInBev <div align="right">*Bengaluru, Karanataka*</div>

- Designed and developed an enterprise-level web-based **chatbot** using Microsoft Bot Framework to facilitate internal communication among employees
- Implemented **OAuth authentication** for secure access to various databases and lakehouses, enabling the chatbot to fetch and summarize job status information
- Utilized **natural language processing (NLP)** techniques to match text inputs with pre-programmed responses and generate appropriate outputs
- Developed an API solution using Python and **FastAPI** to connect and retrieve data from multiple data sources within the team
- Created a web and **PowerBI** based dashboard for the department's GitHub organization, leveraging the **GitHub API** to display data on active projects in a grid-like format using cards
- Incorporated **Chart.js** to showcase graphs and enhance data visualization
- Developed and maintained data management and **documentation** procedures, improving data accessibility and facilitating seamless information sharing across departments
- Assisted in the development and execution of data migration strategies, successfully transferring large volumes of data to a new system within tight deadlines.

PROJECTS

Sentimental Analysis using BERT | *Python, NLP, ML, Tensorflow*
- Applied state-of-the-art BERT model for text analysis and sentiment classification
- Performed natural language processing techniques on product reviews
- Classified reviews into positive or negative sentiments using deep learning frameworks

Mass Folder Archiver | *Python, Automation, Compression*
- Created a simple and efficient Python script for file compression and extraction
- Utilized the built-in zipfile module to handle archiving operations
- Archived all the subfolders in a given folder into a desired format

GUI Frontend for Portrait Generation and Animation | *Web Server*
- Developed a graphical user interface for a portrait editing and animation workflow
- Leveraged StyleFlow, a generative adversarial network, to manipulate facial attributes
- Used First-order Motion Model, a neural network, to transfer motion from one image to another
- Created realistic and expressive portraits using the GUI

Open Source Multipurpose Discord Bot | *Python, Web Scraping, GraphQL*
- Built an open source chatbot for Discord, a popular online communication platform
- Used the discord.py library, a Python wrapper for Discord's Developer API, to implement the chatbot
- Implemented various commands and features for the chatbot, such as Moderation, Web Search on various websites such as Youtube, Wikipedia, Anilist, Steam

Technical Skills

Languages: Python, C, C++, JavaScript, HTML/CSS, C#
Frameworks: React, Node.js, Flask, WordPress, Microsoft Bot Framework, ADO.NET
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, Microsoft Azure, Microsoft IIS, Azure Databricks, Azure DataFactory, PowerAutomate, SQL, MongoDB, PowerBI
Libraries: pandas, NumPy, Matplotlib, pyMongo, pyODBC, FastAPI, Chart.js, Bootstrap, Tailwind, React.js
Other Skills: Adobe Photoshop, Adobe Premiere Pro, Powershell, MS Office, Linux, VMWare, Batch Scripting, Automation