Anurag Kar

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Education

New York Institute of Technology — New York, NY
Bachelor of Science in Computer Science 3.67 GPA — *Sep. 2021 – Dec. 2024*

Technical Skills

Languages: Python, Java, SQL, HTML, CSS, JavaScript, MATLAB
Developer Tools: SQL Server, MySQL, AWS DevOps Guru, AWS RDS, Google Cloud, MS Power Platform, Git
Libraries/Frameworks: Flask, Django, pyodbc, tkinter, Fabric, BeautifulSoup4, Matplotlib, spaCy, JavaFX

Experience

IT (Platforms Operations) Intern — May 2024 – August 2024
Smurfit Westrock — *Atlanta, GA*

- Automated the metrics collection of over 10,000 network and VMWare resources by leveraging the LogicMonitor API with recursive API calls, improving data retrieval efficiency
- Streamlined data extraction across of over 1,000 IBM platforms using Fabric for SSH connections and regex for text processing, saving substantial manual effort
- Implemented a GUI-based data entry system using tkinter and pyodbc, incorporating validation techniques to ensure data accuracy before database insertion
- Executed a proof of concept for AWS DevOps Guru with RDS for MySQL to evaluate the tool's monitoring and detection capabilities, using Python to simulate over 500 concurrent users executing inefficient queries
- Generated detailed reports in Power BI, sourcing data from SQL Server

IT Student Assistant — April 2024 – May 2024
New York Institute of Technology — *New York, NY*

- Maintained computers and classroom equipment across campus while troubleshooting technical issues

Projects

F1 Discord Bot | *Python, BeautifulSoup4, Matplotlib, Google Cloud Platform* — Feb 2023 - Present

- Developed and maintained a Python-based Discord bot that delivers real-time information and statistics about the Formula 1 (F1) championship to enthusiasts, ensuring dependable hosting and scalability on the Google Cloud Platform with deployment across 19 Discord servers
- Integrated a diverse array of APIs, including the Discord, Wikipedia, FastF1, and Weather API, to provide real-time race updates, live telemetry, and weather forecasts, enriching the Discord community's F1 experience
- Utilized web scraping libraries such as BeautifulSoup4 to parse through text, images, and tables to present relevant information to users in a clear and concise format
- Implemented the plotting library Matplotlib to generate custom visualizations based on user requests, such as the telemetry and inputs of a driver throughout a race, enabling the representation of such data in an intuitive manner
- Achieved significant outreach via bot-generated graphics, communicating data to over 760,000 individuals on social media platforms; featured on a motorsports data analysis channel with over 1,000,000 subscribers

Collaborative Travel Planner | *Flask, JavaScript, spaCy, SQLAlchemy, Google Cloud* — Sep 2023 - Dec 2023

- Engineered a Flask-based travel planning application, featuring user authentication, location recommendation, and natural language processing
- Implemented a comprehensive user authentication system including sign-up, sign-in, and session management functionalities, as well as OAuth functionality allowing secure user authentication through Google services
- Developed a location recommendation algorithm utilizing Geopy for geocoding and Google Maps API to suggest top-rated locations within a specified radius from user-provided cities
- Employed Natural Language Processing techniques with spaCy to filter and extract relevant nouns and adjectives from user input to enhance query results
- Designed an itinerary management system allowing users to view, delete, and manage their saved itineraries
- Developed a secure password reset system, enabling users to change passwords by validating key phrases created at signup, while implementing strict token-based authentication for access control