

Anurag Kar

U.S. Citizen | Atlanta, GA | 929-374-7328 | anuragkar970@gmail.com | linkedin.com/in/anuragkar | anuragkar.dev

EDUCATION

New York Institute of Technology

Bachelor of Science in Computer Science 3.67 GPA

New York, NY

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

Platforms Operations Intern

Smurfit Westrock

May 2024 – August 2024

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 and Linux 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
- Conducted 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
- Produced detailed reports in Power BI, sourcing data from SQL Server

IT Student Assistant

New York Institute of Technology

April 2024 – May 2024

New York, NY

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

PROJECTS

F1 Data Analysis 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
- Employed BeautifulSoup4 to web scrape images from the F1 website and driver information from Wikipedia, providing relevant information to users
- Utilized 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